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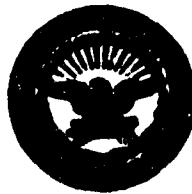
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Bibliography on Aspects of the Biology and Pathogenicity
of Staphylococcus aureus

1961

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Key to abbreviations of abstract journals:

Ab. S. M.	Abstracts of Soviet Medicine
B. Ab.	Biological Abstracts
B. Hy.	Bulletin of Hygiene
Int. Ab.	International Abstracts of Biological Sciences
V. B.	Veterinary Bulletin
Z. B.	Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. Erste Abteilung: Referat

Staphylococcus -- General

Margot, W. 1951 Die Krarkenhaus - Staphylokokken. Ferdinand Enke Verlag,
Stuttgart. 84 pp.

Pereira, A. T. 1960 Os estafilococos patogénicos e seus métodos de classificação.
Arch. Inst. bact. Cax. Pest. 10, 561-821. (E. sum.) Abstr: B. Hy. 32.
301; Z. B. 184, 422.

Richou, R. & Richou, H. 1961 Relations possibles entre les staphylococcies
animales et les staphylococcies humaines. Econ. et Med. anim. 2, 292-298.

Bacteriophage

- Arts, C. P. & Orogan, J. B. 1961 Staphylococcal infections: incidence, environmental and laboratory studies. Ann. Surg. 154, 573-584.
- Asheshov, S. H. 1961 A rapid screening test for phage-type 80 staphylococci. J. Path. Bact. 81, 543-547. Abstr: B. Ab. 26, 73075; B. Hy. 26, 1059; Z. B. 184, 430.
- Blair, J. E. 1961 Recommended procedures for phage typing of staphylococci. Amer. J. clin. Path. 35, 391.
- Blair, J. E. 1961 Recommended procedures for phage typing of staphylococci. Amer. J. publ. Hlth. 51, 606.
- Blair, J. E. & Carr, M. 1961 Lysogeny in staphylococci. J. Bact. 82, 984-993. Abstr: B. Hy. 27, 762.
- Blair, J. E. & Williams, R. S. O. 1961 Phage typing of staphylococci. Bull. World Hlth. Org. 24, 771-794. Abstr: B. Hy. 26, 1292; V. B. 21, 3839.
- Borecka, J. 1961 (A contribution to the epidemiology of staphylococcal infections in maternity hospitals.) Csl. Epidem. Mikrobiol. Immunol. 10, 249-254. (E. sum.) Abstr: B. Hy. 27, 57.
- Borman, E. K. 1961 Statement on commercial staphylococcal typing phages. Amer. J. clin. Path. 35, 391-392.
- Borman, E. K., Blair, J. E., Bodily, H. L., Browne, A. S., Bynoe, S. T., Desranleau, J.-M., Hurst, V., Jackson, G. C., Knight, V., Mulhern, M., Updyke, S. L. & Wise, R. I. 1961 Commercial staphylococcal typing phages. Amer. J. publ. Hlth. 51, 605-606.
- Bradley, J. & Maynell, M. J. 1961 A survey of staphylococci isolated in hospital practice. J. clin. Path. 14, 94-95. Abstr: B. Ab. 22, 15749.
- Brenner, Z. A., Noda, M. R. & Prigerio, M. J. 1961 (Staphylococcus in chronic osteomyelitis. Lysotyping, antibiogram and study of the related flora.) Dia med. 33, 2077-2080.
- Carlson, W. W., Rentschler, G. & Beck, W. C. 1961 A replica-plating method for the rapid quantitative estimation of specific phage-type staphylococci. Guthrie Clin. Bull. 20, 15-19.
- Caroli, G. & Di Biase, C. 1961 Tipizzazione fagica e saggi biochimici di patogenicità di stafilococchi isolati da materiali patologici e non patologici. Boll. Ist. sieroter. Milano 40, 186-200. (E. sum.) Abstr: Int. Ab. 24, 5603; B. Ab. 22, 15734.
- Caroli, G. & Di Biase, C. 1961 Tipizzazione fagica ed antibiotico-resistenza di stafilococchi isolati da materiali di varia provenienza. Boll. Ist. sieroter. Milano 40, 201-209. Abstr: Int. Ab. 24, 5644; B. Ab. 22, 11385.
- Cetin, S. T. 1961 (Phage typing of strains of *Staphylococcus pyogenes* isolated in Istanbul.) Rev. Fac. Med. Univ. Istanbul 24, 659-670. Abstr: B. Hy. 27, 876.

Bacteriophage (Cont'd.)

- Chang, S. S., Liu, J. L. & Wang, C. F. 1961 Studies on cross-infection in hospital. I. Bacterial counts in operation rooms and surgical wards, personnel carrier rates, and the antibiotic resistance as well as phage-types of the staphylococci isolated from various sources. *J. Formosin med. Ass.* 60, 721-733. Abstr: B. Ab. 32, 3062.
- Christovich, G. N. 1960 Some problems of the phage-typing of staphylococci. Obtaining a set of local strains of staphylococcal phage and its use in the typing of strains of various origin. (Transl.) *J. Microbiol. Epidemiol. Immunobiol. U.S.S.R.* 31, 1819-1827. Abstr: B. Ab. 32, 6616; Int. Ab. 24, 5605.
- Ciuca, M., Popovici, M., Nestorescu, N., Alexenco, E. & Soare, L. 1961 Die Lysogenität im Zusammenhang mit anderen biologischen Eigenschaften der Staphylokokken. (Abstr.) *Zbl. Bakt. I Ref.* 178, 82.
- Ciuca, M., Popovici, M., Nestorescu, N., Alexenco, E. & Soare, L. 1961 Die Lysogenität im Zusammenhang mit anderen biologischen Eigenschaften der Staphylokokkenstämme. *Zbl. Bakt. I Orig.* 181, 364-368. Abstr: B. Hy. 32, 691; Z. B. 181, 448; B. Ab. 41, 11005.
- Commercial staphylococcal typing phages. 1961 *Amer. J. publ. Hlth.* 51, 605-606.
- Cooper, M. L., Kaller, H. M., Partin, J. S., Wegman, J. C., Duschroder, W. L. & Nunn, D. M. 1961 "Potentially" epidemic *Staphylococcus aureus*. Detection using eight bacteriophages; strains isolated from nasopharynges and areas of infection. *Amer. J. Dis. Child.* 102, 67-75. Abstr: B. Hy. 32, 82; B. Ab. 40, 24266.
- Davidson, I. 1961 A set of bacteriophages for typing bovine staphylococci. *Res. vet. Sci.* 2, 396-407. Abstr: B. Ab. 32, 14993; V. B. 32, 320.
- Dooley, S. S. 1961 Bacteriophage impregnated disks with a redox indicator for rapid typing of resistant strains of *Staphylococcus aureus*. *J. Lab. clin. Med.* 57, 807-812. Abstr: B. Hy. 32, 1058; B. Ab. 40, 2980.
- Edgar, J. B. & Stocker, R. A. D. 1961 Metabolic and genetic investigations of nutritionally exacting strains of *Staphylococcus pyogenes*. *Nature, Lond.* 191, 1121-1122.
- Foster, W. D. 1961 The detection of an outbreak of infection of perineal tears by routine phage typing. *J. Obstet. Gynaec. Brit. Comm.* 66, 193-196.
- Geder, L. & Tuda, K. 1961 (Variability of staphylococcal strains in hospitals with special reference to antibiotic sensitivity and phage-types.) *Orv. Hetil.* 102, 300-303.
- Greer, J. S., Hanard, R. R. & Livengood, C. S. 1961 Some bacteriological data on dermatological patients. I. Antibiograms and phage types of staphylococci. *J. Invest. Derm.* 36, 273-282. Abstr: B. Ab. 32, 56110; B. Hy. 32, 1060.

Bacteriophage (Cont'd.)

- Griffith, L. J., Ostrander, W. S., Smith, Z. F. & Bezwick, D. E. 1961 Appearance of kanamycin resistance in a single phage type of *Staphylococcus*. *J. Bact.* 81, 157-159. Abstr: B. Ab. 36, 26069.
- Gribova, M. 1961 Types des phages staphylococciques dans les collectivites hospitalieres et les collectivites bien portantes. (Abstr.) *Zhl. Bakt. I Ref.* 178, 78-79.
- Grogan, J. B. & Arts, C. P. 1961 The correlation between mouse virulence and the phage type, antibiotic sensitivity, or source of *Staphylococcus aureus*. *J. Lab. clin. Med.* 58, 268-272. Abstr: B. Hy. 27, 203; B. Ab. 32, 24159.
- Grogan, J. B., Welch, L. J. & Bennett, J. C. 1961 A simple method of detecting phage typability of strains of *Staphylococcus aureus*. *Amer. J. med. Tech.* 22, 98-100. Abstr: B. Ab. 42, 2546.
- Groman, N. E. 1961 Phage-host relationships in some genera of medical significance. *Ann. Rev. Microbiol.* 15, 153-176.
- Gullotti, A. & Spano, C. 1961 Phage-typing of *Staphylococcus aureus* from different sources. *Zhl. Bakt. I Orig.* 181, 482-483. Abstr: B. Hy. 25, 1058; *Z. B.* 183, 133; B. Ab. 40, 24278.
- Gyllenberg, H. G. & Hackman, C. R. 1961 A bacteriophage-lysing strain of *Staphylococcus* employed in the manufacture of dry sausage. *Appl. Microbiol.* 9, 480-483. Abstr: B. Ab. 38, 2895.
- Herrera, V., Barricarrere, R., Monge, A. & Jonas, M. 1961 (Bacteriophage typing of *Staphylococcus aureus* and study of the sensitivity to antibiotics.) *Rev. Chil. Pediat.* 22, 205-209.
- Herrera, V. R., Barricarrere T., R. T., Monge O., A. & Jonas O., M. 1960 Tipificacion por bacterifagos de *Staphylococcus aureus* y estudio de la sensibilidad a los antibioticos. *Rev. Med. Concepcion* 17, 72-75. Abstr: B. Hy. 27, 763.
- Hofstad, T. & Vogelsang, T. M. 1961 Studies of pathogenic staphylococci among the staff in a department of medicine and infection diseases. *Acta path. microbiol. scand.* 51 (suppl. 144), 281-282.
- Hsie, J.-Y. 1961 Clinical aspects of *staphylococcus* and staphylophage. *J. Amer. osteop. Ass.* 61, 102-109. Abstr: B. Ab. 40, 2988.
- Jachera, D. 1961 Untersuchungen über Rekombinationen zur Antibiotikaresistenz bei drei verschiedenen Staphylokokkenstämmen. (Abstr.) *Zhl. Bakt. I Ref.* 179, 375-376.
- Jansson, E. & Wager, O. 1961 *Staphylococcus aureus* in a hospital staff observed for two years. Antibiograms and phage types. *Ann. Med. intern. Penn.* 50, 229-238. Abstr: B. Hy. 27, 481.

Bacteriophage (Cont'd.)

- Jay, J. M. 1961 The bacteriophage type and antibiotic sensitivity of staphylococci recovered from market meats. (Abstr.) Bact. Proc. 61, 69.
- Kallings, L. O. 1961 Inactivation of bacterial viruses by normal human serum. VI. Comparative studies of various phages and individual sera of human and animal origin. Acta path. microbiol. scand. 52, 271-286. Abstr: Int. Ab. 25, 1054; Z. B. 184, 355.
- Koch, H. L., Resnick, A. & Mack, R. 1961 Incidence and drug-resistance of four phage types of hospital-established strains of *Staphylococcus aureus*. Antibiot. & Chemother. 11, 284-288. Abstr: B. Ab. 36, 65411; Int. Ab. 24, 986; Z. B. 183, 132.
- Limson, B. M. & Aragon, P. R. 1961 Prevalence, phage types, and antibiotic sensitivity of hospital-acquired staphylococci. A one-year study at the Philippine General Hospital. Philipp. J. Surg. 16, 85-94.
- Longhin, S., Barbilian, Gh. & Olaru, V. 1961 (Study of staphylococci isolated from skin lesions by means of phages.) Dermato-Venerol. 6, 199-204. (sum.) Abstr: B. Ab. 41, 2861.
- Ma, P. & Mandel, R. J. 1961 Phage typing of "non-typable" strains of *Staphylococcus aureus*. (Abstr.) Bact. Proc. 61, 111.
- Machado, I. M., Sole-Vernin, C., Ulson, C. M., Gouveia, F. P., Coelho, H. Da S., Conceicao, J. A., Da Silva, J. A. & Neves Filho, F. Da P. 1961 (Studies on staphylococcal infections. I. Preliminary study in the pediatric service of a general hospital: incidence of carriers, antibiograms and phage typing of the specimens obtained.) Med. panamer. 15, 640-657.
- Machado, I. M., Sole-Vernin, C., Ulson, C. M., Ribeiro, M. B., Liberatore, R. del R., Neves, F. de P., Jr., Da Silva, J. A. & Coelho, H. da S. 1961 Estudos sobre as estafilococcias. III. Levantamento de portadores realizado no berçario do Hospital das Clínicas. Antibiograma e fagotipagem das amostras obtidas. Rev. Hosp. Clin., S. Paulo 16, 123-131. Abstr: B. Hy. 32, 734.
- Manoliu, N., Brailoiu, A., Bustea, C. & Stefanescu, V. 1959 Staphylococcal infections and the phage-type. Romanian med. Rev. 3(3), 43-44.
- Matejovska, V. & Raska, K. 1961 Die Anwendung der Staphylokokken-Lysotypie für die Epidemiologie und Prophylaxe von Staphylokokken-Infektionen in Krankenhäusern. (Abstr.) Zbl. Bakt. I Ref. 178, 79.
- Matejovska, V. & Raska, K. 1961 Die Anwendung der Lysotypie in der Epidemiologie und für die Prophylaxe von Staphylokokken-Infektionen in Krankenhäusern. Zbl. Bakt. I Orig. 182, 41-48. (3. sum.) Abstr: B. Hy. 32, 174; Z. B. 183, 134; B. Ab. 40, 24294.
- McKenna, J. M. & Sanderson, R. P. 1961 Effect of phagocytosis on the lysis of *Staphylococcus aureus* (type 81) by bacteriophage. Nature, Lond. 192, 570-571. Abstr: B. Hy. 32, 324; Int. Ab. 25, 3163.
- Mercier, P. & Vassiliadis, P. 1961 Etude des staphylocoques isolés du personnel hospitalier et du milieu médical dans un service de chirurgie Athénien. Arch. Inst. Pasteur hellen. 2, 95-104. (3. sum.) Abstr: B. Ab. 32, 7037.

Bakteriophage (Cont'd.)

- Milch, H. 1961 Beobachtungen von Staphylokokken-Infektionen in Krankenhäusern mit Hilfe der Lysotypie. (Abstr.) Zbl. Bakter. I Ref. 178, 80.
- Milch, H. 1961 Isolierung von neuen Staphylokokken-Phagen für die Lysotypie. (Abstr.) Zbl. Bakter. I Ref. 178, 81-82.
- Milch, H. 1961 (Isolation of new *Staphylococcus* phages and their use in phage typing.) Orszagos Kózegeszsegélyi Intézet Működése, 1959. pp. 170-181. (E. sum.) Abstr: B. Hy. 32, 511.
- Milch, H., Börsi, M. & Bogárdi, M. 1961 (Follow up of staphylococcal hospital infections by phage typing.) Orszagos Kózegeszsegélyi Intézet Működése, 1959. pp. 182-194. (E. sum.) Abstr: B. Hy. 32, 481.
- Milch, H., Kalkan, E. & Baranyai, P. 1961 Beobachtungen über die Beziehungen zwischen Pathogenität und Phagenbild von Staphylokokken-Stämmen aus dem Material eines Kinderkrankenhauses. Zbl. Bakter. I Orig. 183, 325-340. (E. sum.) Abstr: B. Hy. 32, 407; Z. B. 184, 429.
- Milch, H., Kalman, Z. & Baranyai, P. 1961 (Examination of relations between the pathogenicity and phage types of *Staphylococcus* strains taken from pediatric hospital patients.) Orv. Hetil. 102, 1689-1694.
- Mitsuhashi, S., Nakano, T., Fukutome, Y. & Kakinuma, Y. 1961 Drug resistance of staphylococci. I. Transduction of drug-resistance in *Staphylococcus aureus*. Gunma J. med. Sci. 10, 297-300. Abstr: B. Ab. 40, 11707.
- Moroz, A. F. 1961 (Phagotyping of antibiotic-resistant staphylococci obtained in in vitro experiments and isolated from patients and hospital staff.) Antibiotiki 6, 148-152.
- Mussatto, M., Calonghi, G. F., Zorsa, M., Dossena, G., Sueri, L. & Vitali, M. A. 1961 Descrizione di un grave episodio epidemico in comunità chiusa da Stafilococco 187. G. Mal. infett. parassit. 13, 765-734. Abstr: B. Hy. 32, 954.
- Mahmias, A., Sakurai, N., Blumberg, R., Doego, A. & Sulzer, C. 1961 The staphylococc : "80/81 complex": epidemiological and laboratory observations. J. Infect. Dis. 103, 211-222. Abstr: B. Hy. 32, 627.
- Nani, S., Vallejo, L. C., Frigerio, M. J. & Nota, N. R. 1961 Tipizzazione batteriofagica di ceppi di "Staphylococcus aureus" isolati in Argentina da casi di mastite bovina. (Comunicazione preliminare.) Arch. Vet. Ital. 16, 19-22. (E. sum.)
- Nefed'eva, N. P., Petrovich, S. L. & Petrushina, L. I. 1961 (Phago-pattern of staphylococci isolated during regular inspection of confectionery factories and in connection with food poisoning.) Vop. Pitn. 20, 51-55.
- Olczak, M. & Sirczillo, B. 1961 (Phage therapy of staphylococcal infections of the skin.) Pol. med. Wkly 16, 250-252. Abstr: B. Ab. 41, 7346.
- Ortel, S. 1960 Elektronenoptische Untersuchungen an Staphylokokken-Bakteriophagen. Zbl. Bakter. I Orig. 176, 35-49. (E. sum.) Abstr: B. Ab. 40, 15578.

Bacteriophage (Cont'd.)

- Ortol, G. 1960 La lisotipificacion de estafilococos y su aplicacion en la epidemiologia practica. Med. paramec. 15, 455-463.
- Parker, M. T. & Williams, R. E. O. 1961 Further observations on the bacteriology of impetigo and pemphigus neonatorum. Acta paediat. 50, 101-112.
- Pattee, P. A. 1961 Transduction of antibiotic resistance in *Staphylococcus aureus*. Diss. Abstr. 22, 397-398.
- Pattee, P. A. & Baldwin, J. N. 1961 Transduction of resistance to chlortetracycline and novobiocin in *Staphylococcus aureus*. J. Bact. 82, 875-881. Abstr: B. Ab. 32, 2324; B. Hy. 32, 763.
- Petrovich, S. L. 1961 (From experience in phage typing of staphylococci in food poisoning.) Vop. Pit. 20, 74-75.
- Plissaka, A. 1960 (Phage typing of enterotoxic staphylococci. Identification of strains by means of phage typing in epidemiologic studies of food poisoning outbreaks.) Med. dosw. mikrobiol. 12, 323-330. Abstr: Z. B. 181, 447.
- Popovici, M., Nestorescu, N., Alexenco, E. & Filotti, A. 1961 Untersuchungen über die Empfindlichkeit nicht-typisierbarer Staphylokokken gegenüber einigen zusätzlichen Phagen. (Abstr.) Zbl. Bakt. I Ref. 178, 80-81.
- Popovici, M., Nestorescu, N., Alexenco, E. & Filotti, A. 1961 Untersuchungen über die Empfindlichkeit nichttypisierbarer Staphylokokken gegenüber einigen zusätzlichen Phagen. Zbl. Bakt. I Orig. 181, 489-492. (E. sum.) Abstr: B. Hy. 32, 1059; Z. B. 181, 132; B. Ab. 40, 24309.
- Przybylkiewicz, Z., Reiss, J., Lachowicz, T. & Zgorniak-Nowosielska, I. 1961 (The characteristics of bacterial flora isolated among patients treated in the Hospital of Children's Diseases, Cracow Academy of Medicine, with special consideration to staphylococci.) Przegl. epidem. 15, 101-116. (E. sum.) Abstr: B. Hy. 32, 57; Int. Ab. 26, 3526; Z. B. 184, 445.
- Pulverer, G. 1961 Lysotypie, Serologie und Antibiogramme pyogener Staphylokokken im Kölner Raum. Z. Hyg. InfektKr. 147, 417-433. Abstr: B. Hy. 32, 83; Int. Ab. 24, 5482.
- Ralston, D. J., Baer, B., Lieberman, M. & Krueger, A. P. 1961 Virolysin, a virus-induced lysin: its appearance and function in phage-infected staphylococci. J. gen. Microbiol. 24, 313-325. Abstr: B. Ab. 32, 45385; B. Hy. 32, 941; Int. Ab. 26, 797.
- Ray, B. G. & Pal, S. C. 1961 Phage pattern of *Staphylococcus* phages. (Abstr.) Indian J. Microbiol. 1, 100.
- Ritz, H. L. 1961 A transduction analysis of complex loci in *Staphylococcus aureus*. Diss. Abstr. 22, 398.
- Ritz, H. L. & Baldwin, J. N. 1961 Transduction of capacity to produce staphylococcal penicillinase. Proc. Soc. exp. Biol., N. Y. 192, 678-680. Abstr: B. Ab. 32, 6462; B. Hy. 32, 300.

Bacteriophage (Cont'd.)

- Rodrigues, M. & Montiel, F. 1961 Estudios sobre infección estafilococica. I. Fagotipificación. Rev. med. Chile 82, 245-250. (E. sum.) Abstr: B. Hy. 32, 201; B. Ab. 32, 15014.
- Rountree, P. H. & Asheshov, Z. H. 1961 Further observations on changes in the phage-typing pattern of phage type 80/81 staphylococci. J. gen. Microbiol. 26, 111-122. Abstr: B. Ab. 32, 81221; B. Hy. 32, 202; Int. Ab. 26, 5662.
- Sakurai, H., Updyke, L. L., Mahmias, A. J. & Gerhardt, M. R. 1961 Laboratory observations on the lysogenic properties of hospital staphylococci and their possible epidemiological implications. Amer. J. publ. Hlth. 51, 566-576. Abstr: B. Ab. 32, 49610; B. Hy. 32, 1099.
- Smith, W. W., James, G. A., Miner, M. L., Bloumer, J. & Jensen, M. L. 1961 A phage-typing system for staphylococci from turkeys with synovitis. Amer. J. vet. Res. 22, 388-390. Abstr: J. Amer. vet. med. Ass. 140, 710; V. B. 31, 3838.
- Solomon, J. J., San Clemente, C. L. & Drury, A. R. 1961 Quantitative coagulase activity and phage patterns of strains of *Staphylococcus aureus* isolated from cows in Michigan. Trans. J. vet. Res. 22, 975-981. Abstr: V. B. 32, 2128.
- Sompolinsky, D. 1961 (A new bacteriophage useful in typing.) Harefah 61, 100-102. (E. sum.) Abstr: B. Hy. 32, 1193.
- Sompolinsky, D., Korn, S., Lernau, H. & Blaser, R. 1961 Natural lysogenization in *Staphylococcus aureus* infections. Bull. Res. Coun. Israel 9B, 82-83.
- Staphylococcal phage typing. 1961 J. Amer. med. Ass. 176, 513-514.
- Taylor, W. J. 1961 Studies on lysogeny in certain strains of *Staphylococcus aureus*. Diss. Abstr. 22, 1357.
- Taylor, W. J. & Koft, B. W. 1961 "Curing" of lysogenicity in *Staphylococcus aureus* by fumagillin. (Abstr.) Bact. Proc. 61, 162.
- Vallejo, L. C., Mani, S., Prigerio, M. J. & Nota, N. A. /Tipificación bacteriológica de cepas de *Staphylococcus aureus* aisladas de casos de mastitis bovina: comunicación preliminar. Rev. Med. vet., B. Aires 42, 13-16. (E. sum.) Abstr: V. B. 31, 3498.
- Van Toorn, M. J. 1961 On the staphylococcal and streptococcal etiology of impetigo. Dermatologica, Basel 123, 391-399. Abstr: B. Ab. 32, 13594.
- Vieu, J. P. 1961 (Value of bacteriophages in the treatment of staphylococcal infections.) Vie Med. 42, 823-829.
- Vogelsang, T. H. & Österwald, B. 1961 Staphylococcal phage groups and phage patterns. Acta path. microbiol. scand. 51(suppl. 134), 277-278.
- Wahl, R. & Pouancé, J. 1961 Mutations d'une souche de *Staphylococcus aureus* vers la résistance à l'erythromycine avec perte de prophages. Ann. Inst. Pasteur 100, 553-568. (E. sum.) Abstr: B. Hy. 32, 1294; Int. Ab. 26, 987; B. Ab. 32, 2707.

Bacteriophage (Cont'd.)

- Wahl, R. & Pounce, J. 1961 Resistance instable phénotypique à l'erythromycine chez *Staphylococcus pyogenes*. Ann. Inst. Pasteur 101, 722-737. (E. sun.)
- Wallmark, G. & Finland, M. 1961 New phages active against staphylococci that are resistant to the conventional phage set. Proc. Soc. exp. Biol., N. Y. 106, 73-76. Abstr: B. Ab. 32, 41562; B. Hy. 32, 809; Int. Ab. 24, 3148.
- Wallmark, G. & Finland, M. 1961 Phage types and antibiotic susceptibility of pathogenic staphylococci. Results at Boston City Hospital 1959-1960 and comparison with strains of previous years. J. Amer. med. Ass. 175, 886-897. Abstr: B. Hy. 32, 927.
- Wallmark, G. & Finland, M. 1961 Studies on staphylococci of phage type "80/81". Amer. J. Med. Sci. 242, 279-285. Abstr: B. Ab. 32, 6655; Int. Ab. 24, 1346.
- Weed, L. A. 1961 Use of bacteriophage typing of staphylococci. Amer. J. clin. Path. 35, 365-366.
- Wesley-Jones, O. & Alder, V. G. ¹⁹⁶¹ Staphylococci in septic fingers. J. clin. Path. 14, 96-98. Abstr: B. Ab. 32, 15350.
- White, A. 1961 Quantitative study of nasal carriers of staphylococci among hospitalized patients. J. clin. Invest. 40, 23-30. Abstr: B. Ab. 32, 27924.
- White, A. 1961 Rapid detection of specific phage types of staphylococci. J. Lab. clin. Med. 32, 334-336. Abstr: B. Hy. 32, 201; B. Ab. 32, 24203.
- Williams, R. E. O. & Jevons, M. P. 1961 Lysotypen von *Staphylococcus aureus* verschiedener Herkunft. (Abstr.) Zbl. Bakt. I Ref. 178, 73.
- Williams, R. E. O. & Jevons, M. P. 1961 Lysotypen von *Staphylococcus aureus* verschiedener Herkunft. Zbl. Bakt. I Orig. 181, 349-358. (E. sun.) Abstr: B. Hy. 32, 797; Z. B. 101, 449; B. Ab. 32, 2679.
- Winkler, I. C. & Grootenhuis, C. 1961 The relation of phage pattern and lysogenicity in the phage typing of staphylococci of phage-group II. Antone v. Leusenhoek J. Microbiol. 22, 225-246. Abstr: B. Ab. 32, 14532; B. Hy. 32, 202.
- Wormald, P. J. 1961 Multiple endemic substrains of *Staphylococcus pyogenes* phage type 80. Mon. Bull. Minist. Hlth. Lab. Serv. 22, 59-62. Abstr: B. Hy. 32, 796.
- Zanetti, M. & Bistini, P. 1961 Il biofotometro registratore nella titizzazione fagica dello stafilococco. Boll. Ist. sieroter. Milano 40, 169-178. Abstr: Int. Ab. 24, 5604; B. Ab. 32, 15352.
- Zierdt, C. H. & Marsh, H. H. 1961 The optimal single phage concentration for the typing of *Staphylococcus aureus*. (Abstr.) Bact. Proc. 61, 111.
- Zivkovic, O. 1961 (On the significance of phage typing of staphylococci.) Vojno-sanit. Pregl. 19, 559-563.

Serology

- Badanou, A. & Mateuscu, D. 1961 (Preliminary observations on the agglutinating capacity of serum for red blood cells treated with staphylococcal antigens.) Dermato-Venerol. 6, 351-356. (E. sum.)
- Bernard, J. O., Dioux, R., Bonnet, D. & Dubureau, L. H. 1961 Etude comparée du taux des antistreptolysines et des antistaphylocolysines sériques au cours de la maladie de Bouilliaud et chez les sujets sains vivant en collectivité. Rev. Immunol. 25, 241-256. Abstr: B. Ab. 39, 6908; B. Hy. 27, 1051.
- Cohen, J. O. & Oeding, P. 1961 Differentiation of strains of staphylococci by means of fluorescent antibodies. (Abstr.) Bact. Proc. 61, 124.
- Peace, A. 1961 Indagini sul fenomeno delle conglutinazioni. III. Sulla capacità delle conglutinine purificate di fioccolare differenti generi microtici in assenza di complemento. Boll. Ist. sieroter. Milano 40, 160-168. (E. sum.) Abstr: Int. Ab. 24, 5477.
- Florman, A. ., Sooma, J. L., Zopp, H. & Airbender, E. 1960 Use of multiple staphylococcal antigens in the hemagglutination test. (Abstr.) Amer. J. Dis. Child. 100, 591.
- Gallo, P., Padron, J. & Ramirez, G. 1959-1960 Comparación inmunológica y electroforetica por papel de un antígeno estafilococcico. Rev. Med. vet. Parasit., Maracaibo 18, 23-29. (E. sum.)
- Grün, L. 1961 Über neue Staphylokokken-Antigene. Zbl. Bakt. I Oriz. 181, 210-215. (E. sum.) Abstr: B. Hy. 35, 692; Z. P. 181, 243; B. Ab. 41, 19555.
- Hawkenes, G., Ellwood, D. C., Baddiley, J. & Oeding, P. 1961 Serological cross-reactivity between polyaccharide A and teichoic acid of *Staphylococcus aureus*. Biochim. biophys. Acta 11, 425-426.
- Jensen, K. 1961 Serological typing of the staphylococci by means of gel-precipitation reactions. Acta path. microbiol. scand. 52, 175-184. Abstr: B. Ab. 37, 6624; Int. Ab. 25, 5480; Z. B. 184, 423.
- Jungerman, D. 1961 Investigations on the antigen structure of *Staphylococcus aureus*. Bull. Acad. polon. Sci., Ser. biol. 9, 15-20. Abstr: Int. Ab. 23, 3181; B. Hy. 36, 925.
- Jungerman, D. 1961 Immunochemical properties of intracellular antigens of *Staphylococcus aureus*. Bull. Acad. polon. Sci., Ser. biol. 9, 21-24. Abstr: Int. Ab. 23, 3182; B. Hy. 36, 925; B. Ab. 37, 2162.
- Köhler, W. 1961 Die Typisierung hämolsierender Stroptokokken der Gruppe A. III. Über die Verbreitung von A-Streptokokken und *Staphylococcus aureus* in einem Kinderkrankenhaus und ihre Typisierung. Z. Immunforsch. 121, 441-455. (E. sum.) Abstr: B. Ab. 40, 24291.
- Lappi, A. 1961 (The antistaphylocolysin titer in subjects with staphylococcal infections.) Nuovi Ann. Igiene Microbiol. 12, 305-308.

Serology (Cont'd.)

- Pereira, A. T. 1961 Antigenic loss variation in *Staphylococcus aureus*. J. Path. Bact. 81, 151-156. Abstr: B. Hy. 36, 588; B. Ab. 36, 53529; Z. B. 184, 419.
- Pillet, J., Orta, B. & Foucaud, M. 1960 Recherches sur l'individualisation serologique des staphylocoques. Etude de la specificite des types 10, 11, 12, 13. Ann. Inst. Pasteur 98, 701-709. Abstr: Z. B. 181, 347.
- Pillet, J., Orta, B., Foucaud, M. & Perrier, M. 1961 Etude serologique de 559 souches de staphylocoques pathogenes isolées en France. Repartition et fréquence relative des différents types. Ann. Inst. Pasteur 100, 713-724. (Z. sum.) Abstr: Int. Ab. 23, 5173; B. Hy. 36, 1292; B. Ab. 40, 16034.
- Pillet, J., Orta, B. & Perrier, M. 1961 Recherches sur l'individualisation serologique des staphylocoques. Miss en évidence de deux nouveaux agglutinogènes spécifiques. Ann. Inst. Pasteur 101, 590-595. (Z. sum.) Abstr: Int. Ab. 23, 3076; B. Hy. 37, 407; B. Ab. 40, 11717.
- Quie, P. O. & Mannsaker, L. W. 1960 Identification in human serum of an inhibitor of staphylococcal satellite proteolysis (Muller phenomenon). (Abstr.) Amer. J. Dis. Child. 100, 490-492.
- Renshaw, S. C. & San Clemente, C. L. 1961 Hemagglutination studies of staphylococcal antibodies in human sera. (Abstr.) Bact. Proc. 61, 143.
- Scandurra, D. & Biondi-Villaroel, G. 1961 (Alpha-antistaphylolysin titer in the newborn infant and in the mother.) Minerva pediat. 13, 495-496.
- Seifert, H. 1961 Der Antistreptolysin- und Antistaphylolysinreichtum des Serums und Augenkammersmassen der Haus- und Labortiere. Z. Immunforsch. 121, 375-382. (Z. sum.) Abstr: B. Hy. 32, 301; Z. B. 182, 391; V. B. 11, 384.
- Seifert, H. 1961 (Nonspecific antistreptolysin titer increases after experimental tubercle bacilli and staphylococcal infections.) Z. ges. inn. Med. 16, 625-629.
- Sasaki, A. & Kawashishi, T. 1961 (Studies on the agglutination reactions of staphylococci isolated from various sources, especially on the relation between the results of slide agglutination test according to Akynama's method and origin of isolation, the biological characters, and the phage types.) Bull. Nat. Inst. Hyg. Sci., Tokyo 22, 189-193.
- Snethmann, J. 1961 (A standard method for determination of *Staphylococcus* alpha antitoxin.) Kiseki. Orvostud. 13, 205-214.
- Takagi, S. & Baba, T. 1961 (Activity of *Staphylococcus* for antianthrax precipitation serum. II. Studies on the common antigen between *Bacillus anthracis* and *Staphylococcus aureus* 209 P.) (Abstr.) Jap. J. vet. Sci. 23(Suppl.), 396.
- Toscano, F. & Pedrinassi, R. C. 1961 (Antistaphylolysin in infantile pathology (considerations on 1870 cases).) Minerva pediat. 13, 133-135.

Serology (Cont'd.)

- Towers, A. G. 1961 A haemagglutination test for anti-Panton-Valentine leucocidin in serum: an interim report on 200 cases. J. clin. Path. 14, 161-163.
- Ujvary, O., Angyal, T. & Toth, L. 1961 Studies on the classification, pathogenicity and antigenic structure of staphylococci. II. Serological typing of *Staphylococcus aureus*. Acta microbiol. Acad. Sci. hung. 8, 141-147. Abstr: B. Ab. 22, 2079; B. Hy. 22, 201; Int. Ab. 22, 3079; Z. B. 184, 420.
- Wiley, B. B. 1961 A new virulence test for *Staphylococcus aureus* and its application to encapsulated strains. Canad. J. Microbiol. 7, 933-943. Abstr: B. Ab. 22, 6713; B. Hy. 22, 764; Int. Ab. 22, 3416; V. B. 22, 1318.

Vaccination; Immunity; Hypersensitivity

- Badanoiu, A. 1961 (Investigations in connection with the use of gamma-globulin in the treatment of cutaneous staphylococcal infections.) Dermato-Venerol. 6, 49-61.
- Badanoiu, A. 1961 Investigations concerning the use of gamma-globulin in the treatment of certain cutaneous staphylococcal infections. Romanian med. Rev. 5(3), 63-64.
- Blinffer, J. R. J. 1961 Antileucocidin and resistance against staphylococcal infections. Intenre v. Leeuwenhoek J. Microbiol. 27, 252-260. Abstr: B. Ab. 27, 14734.
- Betty, I. & Bullen, J. J. 1961 The permeability of the sheep and rabbit intestinal wall to antitoxin present in the circulation. J. Path. Bact. 91, 497-508. Abstr: B. Hy. 26, 1212.
- Blatt, H. 1961 Microbial allergy. A critical review -- 1950-1960. Ann. Allergy 12, 1037-1055; 1198-1216; 1318-1333; 1424-1451.
- Bøe, J. & Svartus, S. 1961 The properdin system. Serum properdin levels in infectious diseases. Acta med. scand. 169, 423-432. Abstr: B. Hy. 26, 1080.
- Bogor, W. P., Frankel, J. W., Wilton, E. R. & Potkonki, L. Staphylococcal skin infections: a longitudinal clinical and serological study. Antimicrob. Agents & Chemother. pp. 371-384.
- Chal'nyi, A. I., Titova, V. S. & Zlatkina, S. A. 1961 (Prophylaxis of maternal and neonatal staphylococcus diseases by immunization with purified sorbed staphylococcal toxoid.) J. Microbiol., Moscow 2(9), 27-30.
- Chal'nyi, A. M., Titova, V. J. & Zlatkina, S. A. 1961 Treatment of staphylococcal diseases in mothers and newborn infants by immunization with purified sorbed staphylococcal toxoid. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 22, 1596-1600.
- Chumachenko, N. V. 1961 (Changes in plasmocytic reaction and antitoxin formation in rabbits under the influence of penicillin.) J. Microbiol., Moscow 2(1), 73-76. Abstr: Ab. S. M. 26, 2494.
- Chumachenko, N. V. 1961 Changes in plasmocytic reaction and antitoxin formation in rabbits under the influence of penicillin. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 22, 88-91. Abstr: Int. Ab. 26, 3331.
- Chumachenko, N. V. & Sokolova, E. M. 1960 (The role of the interval between the administration of antigen and antibiotic in the development of immunity.) Antibiotiki 5(6), 83-86. Abstr: Ab. S. M. 5, 4742.
- Corn, I. & Matessou, D. 1961 (Immunobiologic investigations in cutaneous staphylococcal allergy.) Dermato-Venerol. 6, 137-142. (3. sum.)

Vaccination; Immunity; Hypersensitivity (Cont'd.)

- Darbyshire, J. B. 1961 Further immunological studies in experimental staphylococcal mastitis. *J. comp. Path.* 74, 146-158. Abstr: *Int. Ab.* 23, 2967; *Z. B.* 184, 443; *V. B.* 31, 2799.
- Darbyshire, J. B. 1961 The immunisation of goats against staphylococcal mastitis by means of experimental infections of the skin and udder. *Res. vet. Sci.* 2, 112-116. Abstr: *B. Ab.* 27, 10370; *V. B.* 31, 2798.
- Dobrescu, A., Saceanu, M., Kremer, V. E. & Gramă, F. 1961 (Results obtained in the treatment of certain staphylococcoses in the Craiova dermatovenerological ward.) *Dermato-Venereol.* g, 125-129. (E. sum.) Abstr: *B. Ab.* 41, 2852.
- Dobzay, L. 1960 *Staphylococcus-Scarlatoid.* *Orv. Hetil.* 101, 1816.
- Eberhartinger, C. 1961 Zur Bedeutung des Antistaphylococcalysintitors beim Ekzem. *Wien. med. Wschr.* 111, 243-246.
- Fabian, D. & Dobias, G. 1961 (Therapeutic importance of staphylococcal anatoxins in recurrent pyoderma.) *borgogny. Vener. Scziale* 17, 76-83.
- Felsenfeld, I. 1961 Staphylo-antitoxin levels in Thailand. (Abstr.) *Indian J. Microbiol.* 1, 101-102.
- Fisher, M. W. & Haning, M. C. 1961 Effect of experimental variables on antibacterial activity of human gamma-globulin in mice. *J. Path. Bact.* 82, 293-302. Abstr: *Int. Ab.* 23, 2864.
- Fisher, S. 1961 Observations on an anti-staphylococcal mouse protective antibody in human sera. *Aust. J. exp. Biol. med. Sci.* 42, 413-421. Abstr: *Int. Ab.* 25, 4715; *B. Hy.* 27, 629.
- Florman, A. L., Zepp, H., Althander, I. & Sooma, J. L. 1960 Protection of mice by a staphylococcal extract against staphylococcal infection. (Abstr.) *Amer. J. Dis. Child.* 100, 551-552.
- Florman, A. L., Zepp, H., Althander, I. & Sooma, J. L. 1961 Enhancement of resistance in mice to staphylococcal infection by preliminary treatment with a staphylococcal extract. *Proc. Soc. exp. Biol., N. Y.* 107, 994-997. Abstr: *B. Ab.* 27, 10371; *B. Hy.* 27, 409; *V. B.* 31, 1315.
- Giardinali, M., Cremona, G. F. & Riccardini, M. 1961 Sulla immunità antistafilococcica. Indagine sul titolo dell'antitossina naturale in alcune condizioni fisiopatologiche delle donne. *Minerva med.* 52, 1516-1522.
- Goski, K., Cluff, L. S. & Johnson, J. Z. 3rd. 1961 Studies on the pathogenesis of staphylococcal infection. III. The effect of tissue necrosis and antitoxic immunity. *J. exp. Med.* 113, 255-270. Abstr: *B. Ab.* 26, 3167F; *Int. Ab.* 23, 1013; *B. Hy.* 26, 944; *V. B.* 31, 3126.
- Goski, K., Cluff, L. S., Johnson, J. Z. 3rd & Centi, C. R. 1961 Studies on the pathogenesis of staphylococcal infection. II. The effect of non-specific inflammation. *J. exp. Med.* 113, 249-257. Abstr: *B. Ab.* 26, 3167F; *Int. Ab.* 23, 1013; *B. Hy.* 26, 926; *V. B.* 31, 3125.

Vaccination; Immunity; Hypersensitivity (Cont'd.)

- Greenberg, L., Cooper, M. I. & Healy, O. M. 1961 Staphylococcus polyvalent somatic antigen vaccine. II. An improved method of preparation. Canad. med. Ass. J. 54, 945-947. Abstr: B. Hy. 36, 1061.
- Greenberg, L. & Le Riche, W. H. 1961 Staphylococcal enzyme lysed soluble vaccine. Canad. J. publ. Hlth. 52, 479-485. Abstr: B. Ab. 37, 18951; B. Hy. 37, 512.
- Greenberg, L. & Le Riche, W. H. 1961 Staphylococcal enzyme-lysed soluble vaccine. J. Canad. med. Serv. 17, 581-587. Abstr: B. Ab. 39, 6823.
- Griffith, L. J. & Ostrander, W. J. 1961 The effect of adjuvants on antibody production against Staphylococcus toxoid. (Abstr.) Bact. Proc. 61, 141.
- Gubeidullina, N. Z. 1961 (The levomycin therapy of Staphylococcus and Proteus wound infection of rabbits immunized with staphyloanatoxin.) Antibiotiki 6, 1096-1100.
- Halbert, S. P., Di Sant'Agnese, P. A. & Kotrik, S. R. 1960 Staphylococcal antibodies in cystic fibrosis of the pancreas. (Abstr.) Amer. J. Dis. Child. 100, 555-556.
- Haukkonen, G., Losnegard, N. & Oeding, P. 1961 Extraction and fractionation of antigenic material from Staphylococcus aureus. Acta path. microbiol. scand. 51, 84-94.
- Johnson, J. E. 3rd, Cluff, L. S. & Goshi, K. 1961 Studies on the pathogenesis of staphylococcal infection. I. The effect of repeated skin infections. J. exp. Med. 113, 235-245. Abstr: B. Ab. 36, 31684; Int. Ab. 23, 1013; B. Hy. 36, 929; V. B. 31, 3126.
- Laborie, F. & Laborie, R. 1961 L'allergie et l'immunologie "croisées" dans la sensibilisation des groupes tuberculinique-staphylococcoïque-trichophytindique. (Abstr.) 4th Int. Congr. Allergology. Impronta Med. int. Congr. Ser. No. 42, 140.
- Laborie, F. & Laborie, R. 1961 (Infantile eczema and the antigenic and immunological role of pathogenic Staphylococcus aureus. Thesis. Therapy.) Pediatrice 16, 855-857.
- Langlier, P. & Duguet, G. 1961 Les antistaphylocolysines dans le parviesis. Bull. Soc. Frans. Derm. Syph. 60, 291-292.
- Lind, A. 1961 An eosinophilic response to an isolated Staphylococcus aureus infection. J. Allergy 32, 263-267.
- Lithander, A. 1961 Antitoxic immunity as a protection against staphylococcal infection. An experimental study in mice and rabbits. Acta path. microbiol. scand. 51, 356-362. Abstr: B. Ab. 36, 2901; Int. Ab. 26, 3019; V. B. 36, 1721.
- Longhin, J., Antonsson, J. & Charn, V. 1961 (Considerations on the treatment of staphylocerma.) Dermato-Venerol. 6, 117-122. (S. sum.)

Vaccination; Immunity; Hypersensitivity (Cont'd.)

- Maruyane, Y. 1961 (Studies on bacteriological lability of intestinal staphylococci in infants. 3. Effects of seasons and preventive vaccinations on the staphylococcal intestinal flora in infants.) Acta path. Jap. 65, 1031-1034.
- Negretti, F. 1960 (Research on mice protection against Str. agalactiae by means of a combination streptococci plus beta-toxic staphylococci.) Atti Soc. Ital. Sci. vet. 14, 658-661. (E. sum.)
- Negretti, F. 1961 Ulteriori ricerche sull'attività immunizzante dello stafilococco associato allo streptococco. Atti Soc. Ital. Sci. vet. 15, 829-832. (E. sum.) Abstr: V. B. 32, 4009.
- Nicolau, S. G. & Badanoiu, A. 1961 (The importance of immunologic and allergic reactivity in the pathogenesis of certain staphylococcal skin eruptions.) Dermato-Venerol. 6, 9-15. (E. sum.) Abstr: B. Ab. 41, 7344.
- Nicolau, S. G. & Badanoiu, A. 1961 (Observations on the treatment of staphylococcal skin infections.) Dermato-Venerol. 6, 109-116. (E. sum.)
- Nudenberg, B. 1961 (Therapeutic results obtained with gamma globulin in furunculosis and other recurrent staphylococcal dermatoses. Preliminary report.) Med. panamer. 15, 701-703.
- Oeding, P. 1961 Staphylococcal antigen-antibody reactions in agar. Acta path. microbiol. scand. 51(suppl. 144), 279-280.
- Panero, C. 1961 (On the use of antistaphylococcal serum in the course of treatment with antidiphtheric serum. (Clinical contribution).) Riv. Clin. pediat. 68, 316-323.
- Peter, P. 1961 (Erythromycin and hyperimmune transfusions in the treatment of staphylococcal sepsis.) Orv. Hetil. 102, 321-323.
- Richou, R. & Quinchon, C. 1961 Immunité colostrale, vaccination intramammaire ou sous-cutanée. Rec. Med. vet. 17, 933-941. (J. sum.) Abstr: V. B. 32, 1922.
- Richou, R., Quinchon, C. & Richou, H. 1961 Sur l'immunité antitoxique développée chez la vache à la suite d'injections intramammaires d'anatoxine staphylococcique. C. R. Acad. Sci., Paris 255, 754-756. Abstr: V. B. 32, 977.
- Richou, R., Quinchon, C. & Richou, Mme. R. 1961 Contribution à l'étude de l'immunité antistaphylococcique développée, chez la vache, à la suite d'injections intramammaires d'antigènes spécifiques. Rev. Immunol. 25, 209-222. Abstr: B. Ab. 32, 6837; V. B. 32, 1916.
- Richou, R. & Richou, H. 1961 Sur le pouvoir immunisant d'une toxine staphylococcique soumise à l'action antidotique de "complexes antagonistes." C. R. Acad. Sci., Paris 253, 3106-3108. Abstr: Int. Ab. 26, 1248.

Vaccination; Immunity; Hypersensitivity (Cont'd.)

- Richou, R., Richou, Mme. R. & Chirol, C. 1961 Influence des gamma globulines humaines d'origine placentaire sur l'immunité engendrée, chez le lapin, par l'anatoxine staphylococque. Rev. Immunol. 25, 234-240. Abstr: B. Hy. 22, 662; B. Ab. 22, 6838.
- Rogers, D. S. & Melly, M. A. 1961 The dynamics and immunology of the phagocytosis of staphylococci. Trans. Am. Phycol. 24, 216-224.
- Rudzki, J. 1961 Zur Kenntnis der Staphylokokkenallergie bei Hautkrankheiten. Derm. Wschr. 143, 98-104.
- Rudzki, J., Sarnowska-Kleczewska, H. & Maciejowska, E. 1961 (Staphylococcal sensitivity in skin diseases.) Przegl. derm. 48, 119-127.
- Sanderson, A. R., Juergens, W. G. & Strominger, J. L. 1961 Chemical and immunochemical structure of teichoic acid from *Staphylococcus aureus* (Copenhagen). Biochem. biophys. Res. Commun. 5, 472-476. Abstr: Int. Ab. 24, 4339.
- Seifert, H. 1961 (Serum proteins, especially gamma globulin, in abnormal anti-streptolysin O and antistaphylococcal findings.) Dtsch. Gesundheitswes. 16, 1966-1971.
- Seiketova, O. Zh. 1960 (Experience in organized control of pyogenic skin infections at some industrial establishments in Alma-Ata.) Thesis, Kazakh Dermato-Venerological Institute, Alma-Ata. 19 pp. Abstr: Ab. S. M. 5, 5029.
- Sorbie, C. 1961 Staphylococcal septicaemia. Lancet 2, 1284-1285. Abstr: B. Hy. 22, 277.
- Stamp 1961 Antibacterial immunity to *Staphylococcus pyogenes* in rabbits. Brit. J. exp. Path. 42, 30-37. Abstr: B. Hy. 26, 692; B. Ab. 26, 53558; Int. Ab. 23, 1012; V. B. 31, 2041.
- Sunarov, I., Stoichev, S., Krustev, M. & Dimitrov, I. 1961 (Immunity conferred by staphylococcal antitoxin against gangrenous mastitis in ewes.) Izv. vet. Inst. zaras. parazit. Bolesti, Sofia 1, 299-303. (E. sum.)
- Svejcar, J., Lhotak, J. & Kryl, J. 1961 Possible staphylococcal aetiology of rheumatoid arthritis. Allergie u. Asthma 2, 216-220.
- Szathmary, J. 1961 A standardized method for the determination of staphylococcal alpha-antitoxin. Acta microbial. Acad. Sci. hung. 9, 281-290.
- Tunkl, B. & Karlovic, M. 1961 (Effect of fascioliasis on tuberculin sensitization in cattle.) Vet. Glasn. 15, 57-60. (E. sum.) Abstr: V. B. 31, 2050.
- Vaccaro, H. 1960 Aspectos immunobacteriologicos en la patogenia de las estafilococcias. Med. panamer. 15, 350-357.
- Vallet Armengol, F. J. 1961 (Antistaphylococcal immuno-enzymotherapy.) Rev. clin. esp. 81, 419-421.

Vaccination; Immunity; Hypersensitivity (Cont'd.)

- Voskresensky, B. V., Dmitrieva, A. I. & Lebedeva, Z. I. 1961 (Prophylaxis of staphylococcal diseases in maternity homes by immunization of pregnant women with *Staphylococcus* toxoid.) J. Microbiol., Moscow 32(1), 33-39.
Abstr: Ab. S. M. 5, 2758.
- Voskresenski, B. V., Dmitrieva, A. I. & Lebedeva, Z. I. 1961 Prophylaxis of staphylococcal diseases in maternity homes by immunizing pregnant women with staphylococcal toxoid. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 39-47. abstr: B. Hy. 32, 735.
- Zenk, H. 1961 (Antistreptolysin and antistaphylococcal reactions in suspected focal tonsilitis.) Dtsch. Gesundheitswes. 16, 2341-2344.

Non-specific Resistance of Host

- Baumann, S. S., Carr, C. D. & Senturia, B. H. 1961 Studies of factors considered responsible for diseases of the external auditory canal. III. A comparison of lipids in normal and infection-susceptible ears. Ann. Otol., etc., St. Louis 70, 1055-1061.
- Bendkowski, B. 1961 Boils and allergy. I. General consideration of boils. II. Investigation of boils in general practice. Acta allerg., Kbh. 16, 81-90; 91-120. Abstr: B. Ab. 26, 81347; 81348.
- Beyer, F. & Lemmens, A. 1961 Action du jeûne et de la cortisone sur la sensibilité de la souris à l'infection staphylococcique. Utilisation en chimiothérapie. Ann. Inst. Pasteur 100, 814-818. (3. num.) Abstr: B. Hy. 22, 409; B. Ab. 40, 11956; V. B. 21, 3128.
- Broadbent, A. I. & Siemieniak, J. 1961 The influence of endotoxin on resistance to infection. Bull. N. Y. Acad. Med. 37, 468-467. Abstr: B. Ab. 26, 6646.
- Cohen, J. O., Cowart, G. S. & Cherry, W. B. 1961 Antibodies against Staphylococcus aureus in nonimmunized rabbits. J. Bact. 82, 110-114. Abstr: B. Ab. 22, 6529; B. Hy. 22, 301; V. B. 21, 3336.
- Darby, B. M. & Rogers, D. S. 1961 Studies on bacteremia. V. The effect of simultaneous leukopenia and reticuloendothelial blockade on the early blood stream clearance of staphylococci and Escherichia coli. J. exp. Med. 113, 1053-1066. Abstr: B. Ab. 26, 99948; B. Hy. 22, 166; Int. Ab. 22, 727.
- Dineen, P. 1961 A critical study of 100 consecutive wound infections. Surg. Gynec. Obstet. 113, 91-96. Abstr: Int. Ab. 22, 3078.
- Dineen, P. 1961 The effect of alterations in intestinal flora on host resistance to systemic bacterial infection. J. Infect. Dis. 109, 280-284. Abstr: B. Ab. 26, 19070; B. Hy. 22, 906; V. B. 21, 1429.
- Doolley, E. J. & Davis, T. R. 1961 External environmental factors and host-parasite relationships. Effect of artificial acclimatization to heat on the nasal carriage of staphylococci. U.S. Army Med. Res. Lab. Rep. No. 517, 19 pp.
- Doolley, E. J. & Davis, T. R. 1961 External environmental factors and host-parasite relationships. II. Effect of a synthetic mineralocorticoid on the nasal carriage of staphylococci during chronic exposure to heat. U. S. Army Med. Res. Lab. Rep. No. 521, 14 pp.
- Dubois, R. & Scheidler, R. W. 1961 Effect of bacterial endotoxins on water intake and body weight of mice. J. exp. Med. 113, 921-930. Abstr: Int. Ab. 22, 3138.
- Fiorini, G. & Macrina, L. 1961 (Production of resistance to experimental infections with S. typhi and *Staphylococcus aureus* in mice treated with lipopolysaccharides and cellular walls of E. coli.) Riv. Ist. sieroter. Ital. 32, 237-247.
- Friedman, L. R. & Baeza, P. B. 1961 Experimental pylomphritis. VIII. Effect of solidifying agents on susceptibility to infection. Yale J. Biol. Med. 33, 318-326. Abstr: Int. Ab. 22, 3170; B. Ab. 26, 73101.

Non-specific Resistance of Host (Cont'd.)

- Gusarova, A. S. 1960 (Treatment of pyoderma guided by certain tests of bodily reactivity.) Thesis, Department of Skin and Venereal Diseases, I. N. Pirogov Second Medical Institute, Moscow. 15 pp. Abstr: Ab. S. M. 5, 5030.
- Hirsch, J. C. & Church, I. B. 1961 Adrenal steroids and infection: The effect of cortisone administration on polymorphonuclear leukocytic functions and on serum opsonins and bactericidins. *J. clin. Invest.* 40, 794-798. Abstr: B. Ab. 22, 57266; B. Hy. 22, 1214.
- Kearns, W. R., Minchew, B. H. & Cluff, L. E. 1961 Studies of the epidemiology of staphylococcal infection. III. Clinical factors in susceptibility to staphylococcal disease. *New Engl. J. Med.* 265, 1128-1134. Abstr: B. Ab. 22, 6701; B. Hy. 22, 596.
- Klemits, M. & Höfing, A. 1961 Zur Pathogenese der Staphylokokkensepsis des Kindes. *Munch. med. Wschr.* 103, 2537-2541. (E. sum.) Abstr: Z. B. 184, 440.
- Klemits, M., Ritzerfeld, W., Hüther, W. & Rath, J. 1961 Tierexperimentelle Studien zum Problem der natürlichen Resistenz gegenüber bakteriellen Infektionen. IV. Einfluss von Staphylokokkentoxinen auf die mit Fremdwieiss vorbehandelte weisse Ratte. *Z. Hyg. Infektkr.* 148, 159-167. Abstr: Int. Ab. 22, 1061; B. Hy. 22, 1081.
- Lisagrova, A. V. 1960 (The physiological protective function of the skin.) Thesis, Department of Microbiology, I. N. Pirogov Second Medical Institute, Moscow. 20 pp. Abstr: Ab. S. M. 5, 4721.
- Ledany, G., Vajda, O., Dasi, I. & Borvendeg, J. 1961 Die Wirkung der Nephrektomie auf die Phagocytose der Leukozyten. *Z. ges. exp. Med.* 134, 254-259. Abstr: Int. Ab. 22, 3146.
- Mihalca, E., Margineanu, O., Butnaru, J. & Groza-Roman, M. 1960 (Clinical and pathogenic aspects of staphylococcal disease in children.) *Stud. Cercet. Med.* 11, 371-375. (R. & F. sum.) Abstr: B. Ab. 22, 2508.
- Kevin, T. A., Baer, P. W. & Littleton, H. 1961 The effect of tissue extracts on the growth of certain bacteria. *J. dent. Res.* 40, 386. Abstr: B. Ab. 22, 57358.
- Northover, B. J. 1961 The effect of histamine and 5-hydroxytryptamine on phagocytosis of staphylococci in vitro by polymorphs and macrophages. *J. Path. Bact.* 82, 355-361. Abstr: Int. Ab. 22, 3029; B. Ab. 22, 21937.
- Northover, B. J. 1961 Influence of the charge on a serum protein molecule and its ability to stimulate or inhibit the phagocytosis of bacteria by leucocytes. *Nature, Lond.* 189, 574-576. Abstr: B. Hy. 22, 822.
- Preseman, R. S. 1960 Prevention of staphylococcal infections of the skin. *J. Albert Einstein med. Center* 9, 122-124. Abstr: B. Ab. 22, 19101.

Non-specific Resistance of Host (Cont'd.)

- Prigal, S. J. 1961 Development in mice of prolonged non-specific resistance to sarcoma implant and *Staphylococcus* infection following repository injection of lipopolysaccharide. *Nature*, Lond. 191, 1111-1112. Abstr: B. Hy. 32, 109; V. B. X, 178.
- Ross, D. J. & Mitchell, D. G. 1961 Insulin therapy in *Staphylococcus* infections. *Amer. Practit.* 12, 49-50. Abstr: B. Ab. X, 65177.
- Schaedler, R. W. & Dubos, R. J. 1961 The susceptibility of mice to bacterial endotoxins. *J. exp. Med.* 113, 599-570. Abstr: B. Hy. X, 687; Int. Ab. 23, 1002.
- Schimke, R. T., Black, P. H., Mark, V. H. & Swartz, M. N. 1961 Indolent *Staphylococcus albus* or *aureus* bacteremia after ventriculocardiostomy: role of foreign body in its initiation and perpetuation. *New Engl. J. Med.* 264, 264-269.
- Shayegani, M. G. 1961 The intracellular fate of staphylococci. Diss. Abstr. 22, 977-978.
- Slopek, S., Grzybek-Hrymcowicz, E. & Ladosz, J. 1961 Studies on the mechanism of the phagocytic reaction. IV. Phagocytosis of mixtures of different micro-organisms. *Arch. Immun. Terap. dosw.* 9, 133-137. Abstr: B. Ab. X, 85450; Int. Ab. 26, 1212.
- Springer, G. F., Stevens, E., Dharmitra, S., Stinnatt, J. & Gyorgy, P. 1961 Protection of mice against lethal *Staphylococcus* infection by *Escherichia coli* O86 fractions. *Science* 134, 335-336. Abstr: B. Hy. X, 1188; Int. Ab. 25, 3080.
- Teodorescu, S., Comu, A., Didioiu, I., Coltoiu, A., Ivan, M., Cheorghiu, G., Nicolescu, F. & Serbanescu, I. 1961 (Remarks on the treatment of staphylococcal eczematiform eruptions, with antibiotics alone or associated with corticotherapy.) *Dermato-Venerol.* 6, 17-22. (S. sum.) Abstr: B. Ab. 41, 11646.
- Teodosiu, T., Huntzaru, M. & Antonescu, S. 1961 (On corticotherapy in staphylococcosis.) *Dermato-Venerol.* 6, 419-421.
- Towers, A. G. 1961 Acid extract of leukocytes and *Staphylococcus pyogenes*. *Nature*, Lond. 192, 272. Abstr: B. Hy. 32, 301.
- Vagvulescu, G. & Simu, G. 1960 (Anatomo-clinical aspects in staphylococcal septicemia with slow development.) *Stud. Cercet-Med.* 11, 377-382. (R. : F. sum.) Abstr: B. Ab. 26, 2519.
- Vovk, S. I. 1961 (Individual characteristics in the reactivity of the organism and toxicoinfectious processes.) *Fisiol. Zh.*, Kiev 2, 409-416.
- Watson, K. C. 1961 Survival of bacteria in anaerobic hepatic pus in vitro. *J. Hyg., Camb.* 52, 161-169. Abstr: Int. Ab. 25, 4843; B. Ab. X, 73159.
- Wood, D. C., Burgess, L. & Morganson, W. J. 1961 Serum antibacterial activity in patients with acute and chronic bacterial infections and with hyper-, hypo-, and agammaglobulinemia. *Lab. Invest.* 10, 381-387. Abstr: B. Ab. X, 65088; Int. Ab. 24, 729.

Interactions with other Microorganisms

- Arndt, W. F. & Ritter, R. L. 1961 Synergism between staphylococci and Proteus in mixed infections. *Proc. Soc. exp. Biol., N. Y.* 100, 166-169. Abstr: *B. Ab.* 32, 19065; *B. Hy.* 32, 630; *V. B.* 32, 1314.
- Astokes, A. & Serniak, L. 1961 (Observations on the role of influenza viruses in staphylococcal infections.) *Pediat. polska* 2, 1123-1126.
- Burger, U. & Prolle, H. 1961 Der Antagonismus zwischen *Staphylococcus aureus* und oralen *Neisserien*. *I. Immunoforsch.* 122, 35-43. Abstr: *B. Hy.* 32, 301; *Int. Ab.* 25, 3194; *Z. B.* 164, 427; *B. Ab.* 32, 19975.
- Bobchenko, Ie. S. & Baishova, V. N. 1961 (On the effect of synthsomycin, chlortetracycline and imarin on the association of staphylococci with gram-negative bacteria.) *J. Microbiol., Kiev* 2(3), 50-55.
- Cosca, L. 1961 (Bacteriologic investigations concerning staphylococci-streptococci antagonism.) *Dermato-Venerol.* 6, 63-67. (S. un.) Abstr: *B. Ab.* 31, 7335.
- Cook, M. M., Francis, T., Jr. & Kendrick, P. L. 1961 A study of the interaction between influenza virus and staphylococci in the chick embryo. (Abstr.) *Bact. Proc.* 61, 119.
- Dieckmann, B. 1960 Beitrag zum Problem der Bakteriensicherheit. *Zbl. Bakt.* I Orig. 180, 279. Abstr: *I. B.* 181, 247.
- Eichensald, H. P., Kotsevalov, O. & Passo, L. A. 1961 Some effects of viral infection on aerial dissemination of staphylococci and on susceptibility to bacterial colonization. *Bact. Rev.* 25, 274-291. Abstr: *B. Hy.* 32, 595; *B. Ab.* 32, 19786.
- Giazenov, M. G. 1961 Course of changes in the redox potential and pH of the medium in pure and mixed cultures respectively. II. Changes in the redox potential and pH of the medium in pure and mixed cultures of *Proteus vulgaris*, *Staphylococcus aureus* and *Pseudomonas pyocyanea*. (Transl.) *J. Microbiol. Epidemiol. Immunobiol. U.S.S.R.* 32, 693-705.
- Oberhofer, T. E. & Frazier, W. C. 1961 Competition of *Staphylococcus aureus* with other organisms. *J. Milk Tech.* 34, 172-175.
- Peterson, A. C., Black, J. J. & Gunderson, M. F. 1961 Staphylococci in competition. (Abstr.) *Bact. Proc.* 61, 69.
- Sanders, A. C., Polcari, M. J. & Roefling, A. F. 1961 Microbial interactions of *Staphylococcus* and *Neisseria gonorrhoeae* in "penicillin-resistant" gonorrhea. (Abstr.) *Bact. Proc.* 61, 103.
- Schindler, C. A. 1961 A staphylocytic enzyme produced by a gram positive micrococcus. (Abstr.) *Diss. Abstr.* 21, 3231.
- Schindler, C. A. & Schmarrit, F. T. 1961 A staphylocytic enzyme from a micrococcus (X-6-W). (Abstr.) *Bact. Proc.* 61, 126.

Interactions with other Microorganisms (Cont'd.)

- Sellers, T. F., Jr., Schulman, J., Bouvier, C., McCune, R. & Kilbourne, E. D.
1961 The influence of influenza virus infection on exogenous staphylococcal and endogenous murine bacterial infection of the bronchopulmonary tissues of mice. *J. exp. Med.* 114, 237-256. Abstr: B. Ab. 36, 81468.
- Vassiliadis, P. & Tsamouranis, N. 1961 Activite antibiotique d'un *Staphylococcus albus*. *Arch. Inst. Pasteur hellen.* 7, 105-113. (E. sum.) Abstr: B. Ab. 36, 1580.

Laboratory Detection and Diagnosis

- Burns, R. P. & Florey, M. J. 1961 A plasma-mannitol-brom cresol purple agar for rapid identification of staphylococci. Amer. J. Ophthalm. 52, 783-789.
- Cominassini, C. 1961 Studio comparativo sull'efficacia del terreno di Zabovitz, Evans e Hiven (1955)--agar tellurito glicina (A.T.G.) e del terreno di Chapman (1945)--agar sale mannito (A.S.M.)--nell'isolamento degli stafilococchi coagulasi-positivi da prodotti vari. Boll. Ist. sieroter. Milano. 40, 369-376. Abstr: B. Ab. 32, 22881.
- Dofant, C. A. 1961 Paraoribenzato de metilo (Nipagin) en desarrollo microbiano. Método sencillo de diferenciación de estafilococos. Arch. Bioquim. Quim. y Farm. 2, 23-29. (3. sum.) Abstr: B. Ab. 32, 22882.
- Finegold, S. M. & Sweeney, E. L. 1961 An improved polymyxin medium for isolation and identification of *Staphylococcus aureus*. (Abstr.) Bact. Proc. 61, 114.
- Finegold, S. M. & Sweeney, E. L. 1961 New selective and differential medium for coagulase-positive staphylococci allowing rapid growth and strain differentiation. J. Bact. 81, 636-641. Abstr: B. Ab. 32, 49152; B. Hy. 32, 299; V. B. 31, 2803.
- Hinton, W. A., Taggart, J. G. & Orr, J. H. 1960 The significance of the isolation of coagulase-positive staphylococci from stool. With special reference to the diagnosis of staphylococcal enteritis. Amer. J. clin. Path. 33, 505-510. Abstr: B. Ab. 32, 85422.
- Hopton, J. 1961 A selective medium for the isolation and enumeration of coagulase positive staphylococci from foods. J. appl. Bact. 24, 121-124. Abstr: B. Hy. 32, 628; B. Ab. 32, 19596.
- Kimler, A. 1961 Fluorescein amine media for rapid differentiation of staphylococci. J. Bact. 82, 106-109. Abstr: B. Ab. 32, 2092; B. Hy. 32, 298.
- Liu, J. L. 1961 The chloral hydrate agar as a selective medium for coagulase-positive staphylococci. J. Formosan med. Ass. 60, 777-782. Abstr: B. Ab. 32, 22768; B. Hy. 32, 876.
- Liu, P. V. 1961 A modification of Elek's technic to be performed on microscope slides. Amer. J. clin. Path. 32, 471-473.
- Mino, K. & Otsuka, G. 1961 (Studies on staphylococci with special reference to a new selective enrichment culture medium.) J. Jap. vet. med. Ass. 14, 429-432. (E. sum.) Abstr: V. B. 32, 1317.
- Ostrovsky, A. D. 1961 (Ways for rational diagnosis and therapy of *Staphylococcus* affections in children.) J. Microbiol., Moscow 32(8), 69-74.
- Popovici, M. 1961 (Laboratory diagnosis in staphylococcal infections.) Microbiol Parasitol. Epidemiol., Bucuresti 6(1), 71-78.
- Porter, I. A. & Nicholson, J. 1961 A contact slide method for the isolation of staphylococci. J. clin. Path. 14, 557.

Laboratory Detection and Diagnosis (Cont'd.)

- Raj, M. & Liston, J. 1961 Detection and enumeration of coagulase-positive staphylococci. (Abstr.) Bact. Proc. 61, 68.
- Szarejki, K. 1961 Ein Nährboden zur schnelleren Diagnose der pathogenen Staphylokokken. Zbl. Bakter. I Orig. 182, 560-561. Abstr: Z. B. 184, 425.
- Wierschowski, J., Czarnowska, W. & Morse-Fitz, J. 1961 (Isolation of staphylococci from baked goods with the aid of selective culture media.) Roczn. Zakl. Hig., Warsz. 12, 131-137. Abstr: Z. B. 183, 131.
- Wiesmann, Z. 1961 Bakteriologie und Epidemiologie der Staphylokokken-Infektionen. Gynäcologia 151, 325-335. Abstr: B. Ab. 26, 73162.
- Wise, R. I. 1961 The diagnostic dilemma of severe staphylococcal infections. Ann. intern. Med. 55, 344-346.
- Yaroshenko, V. A. 1961 (Comparative evaluation of the methods used for detection of pathogenic cocci in the air of hospital premises.) J. Microbiol.. Moscow 32(3), 64-68. Abstr: Ab. S. M. 5, 3236.
- Yaroshenko, V. A. 1961 Comparative evaluation of methods used to detect pathogenic cocci in the atmosphere on hospital buildings. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 468-473.
- Zounar, H. 1961 Über einen Mehrfachnährboden zur Staphylokokkendiagnostik. Zbl. Bakter. I Orig. 182, 551-553. Abstr: B. Hy. 37, 200; Z. B. 184, 425.

Characteristics Related to Pathogenicity--General and
Miscellaneous

- Akita, T. 1961 Biological characteristics of staphylococci isolated from cow's milk. Jap. J. vet. Res. 1, 132-133.
- Alessandri, M. & Guerra, M. 1961 Differenze di sensibilità agli antibiotici ed altre caratteristiche di stafilococchi umani ed animali. Ann. Sclavo 3, 703-722. (E. sum.)
- Alessandri, M. & Guerra, M. 1961 Differenze di sensibilità agli antibiotici ed altre caratteristiche di stafilococchi umani ed animali. Zooprofilassi 16, 631-633. (E. sum.) Abstr: V. B. 32, 1317.
- Alekseeva, O. G. 1960 (Methods of determining the dermonecrotic properties of staphylococci.) Lab. Delo (6), 22-23. Abstr: Referat. Zh. Biol., 1961, No. 11B442.
- Angyal, T. 1961 Studies on the classification, pathogenicity and antigenic structure of staphylococci. I. The occurrence and pathogenicity of Micrococcaceae. Acta microbiol. Acad. Sci. hung. 8, 127-139. Abstr: B. Ab. 32, 2233; B. Hy. 32, 201; Int. Ab. 24, 3079; Z. B. 184, 419.
- Angyal, T. 1961 Studies on the classification, pathogenicity and antigenic structure of staphylococci. III. Examination of staphylococci isolated from faeces. Acta microbiol. Acad. Sci. hung. 8, 149-157. Abstr: B. Ab. 32, 2018; B. Hy. 32, 201; Int. Ab. 24, 3079; Z. B. 184, 421.
- Barker, H. 1961 Methicillin-resistant staphylococci. J. clin. Path. 14, 385-393. Abstr: B. Ab. 32, 19919.
- Battistini, F. 1961 Ricerche sulla aloresistenza e alcolassusfazione delle tre varietà di stafilococchi. G. Batt. Virch. Immun. 24, 13-20. (E. sum.) Abstr: B. Hy. 32, 1165; Z. B. 184, 425.
- Burgos, U. 1960 Presencia y propiedad del Staph. aureus de la nasofaringe del personal medico de una clinica quirurgica. Med. parameer. 15, 406-409.
- Bernheimer, A. W. & Schwartz, L. L. 1961 Extracellular proteins of staphylococci. Proc. Soc. exp. Biol., N. Y. 106, 776-780. Abstr: P. Ab. 32, 53218; B. Hy. 32, 1292.
- Bonati, A., Pernice, A. & Macri, M. 1961 (Development of antibiotic resistance in strains of *Staphylococcus aureus* after increasing virulence by means of serial passages in rabbits.) Boll. Soc. ital. Biol. sper. 32, 470-472.
- Bunney, C. 1961 The effect of temperature on the production by coagulase-positive staphylococci of staphylokinase and other extracellular substances. J. gen. Microbiol. 24, 393-400. Abstr: B. Ab. 32, 45510; B. Hy. 32, 926; Int. Ab. 24, 829.

Characteristics Related to Pathogenicity--General and
Miscellaneous (Cont'd.)

- Carrasco, G. 1960 Sulle caratteristiche di patogenicità di ceppi di stafilococco aureo isolati in ambiente ospedaliero. *Acta med. Ital.* 15, 261-264.
Abstr: *B. Hy.* 32, 762.
- Christovich, G. N. 1961 Pathogenesis of staphylococcal infections. *Medgis.* (No pagination, publisher, or address.) Abstr: *Ab. S. M.* 5, 3234.
- Clark, W. S., Jr., Moore, T. D. & Nelson, F. E. 1961 Characterization of coagulase-positive staphylococci isolated from raw milk. *Appl. Microbiol.* 2, 195-199. Abstr: *B. Ab.* 32, 73285; *B. Hy.* 36, 1248; *Z. B.* 184, 447.
- De Peroyra, V. R., De Garcia, E. W. & Kenedz, J. 1961 Estudio de las variaciones en la fisiología de *Staphylococcus aureus* con resistencia inducida in vitro a la bacitracina. *Rev. latinoamer. Microbiol.* 4, 75-81. (E. sum.) Abstr: *B. Hy.* 32, 1194.
- Eichnerwald, H. F., Kotzovalov, O. & Fesso, L. A. 1960 *Staphylococcus aureus*, phage type 80/31: differences in epidemiologic and clinical properties among various strains. (Abstr.) *Amer. J. Dis. Child.* 100, 695.
- Farina, R. & Sassi, P. 1961 Identificazione e studio di 102 ceppi emolitici di stafilococco piogene isolati da diverse specie animali in condizioni patologiche. *Ann. Fac. Med. vet. Pisa* 14, 175-195. (E. sum.) Abstr: *V. B.* 32, 3286.
- Fast, J. 1961 (Relationship between the resistance to antibiotics and the virulence of *Staphylococcus pyogenes*.) *Polsk. Przegl. chir.* 32, 900-901.
- Gamallova, L. A. 1961 (Characteristics of staphylococci isolated from patients treated with antibiotics.) *Antibiotiki* 6(9), 79-82.
- Garvie, J. I., Higgs, T. M. & Neave, F. K. 1961 Unusual varieties of *Staphylococcus aureus*. *J. Path. Bact.* 81, 255-259. Abstr: *B. Hy.* 36, 691; *B. Ab.* 32, 53773.
- Goldschneider, I., Hayflick, L., Mudd, S. & Taubler, J. 1961 A cytopathogenic effect of staphylococcal filtrates on human cells in tissue culture: neutralization with immune sera. *Bull. Res. Coun. Israel* 21, 61.
- Guadagno, G. 1961 (Observations on *Staphylococcus* strains isolated from septic foci. II. On the pathogenic power for the mouse of strains endowed with multiple resistance to antibiotics.) *Acta med. Ital.* 16, 57-61.
- Hardaway, J. M., Husni, E. A., Geever, E. F., Moyes, H. J. & Burns, J. W. 1961 Studies on the relationship of bacterial toxins and intravascular coagulation to pseudomembranous enterocolitis. *J. Surg. Res.* 1, 121-127.
- Hertz, C. S. & Waites, B. F. 1961 Observations on the ammonium molybdate test for the virulence of staphylococci. *Amer. J. clin. Path.* 35, 472-474; *Tech. Bull. Regist. med. Techn.* 31, 70-72. Abstr: *B. Hy.* 36, 1166; *B. Ab.* 36, 85499.

Characteristics Related to Pathogenicity--General and
Miscellaneous (Cont'd.)

- Hochrich, P. D. 1961 Intracommunity admixture of human associated staphylococci. J. Lab. clin. Med. 57, 781-806. Abstr: B. Hy. 36, 1059; B. Ab. 40, 2911.
- Inai, N., Kamizura, T. & Tabuchi, K. 1961 (Studies of staphylococci isolated from domestic animals. I. Comparison of strains from oral cavities of apparently healthy individuals and those of pathological origin.) Bull. Azabu vet. Coll., Japan (8), 11-26. (E. sum.) Abstr: V. B. 22, 3.
- Ismail, H. & Elyan, A. S. 1961 Variation of *Staphylococcus aureus* induced by in-vitro antibiotic treatment. J. Egypt. med. Ass. 44, 745-750. Abstr: B. Ab. 41, 2583.
- Jacharts, D. 1961 Bakteriophysiological Grundlagen des Hospitalismus. Dtsch. med. Wschr. 86, 2116-2119.
- Jeffries, C. D. 1961 Comparison of six physiologic characteristics of staphylococci from laboratory specimens. Amer. J. clin. Path. 36, 114-118. Abstr: B. Hy. 36, 201.
- Jeney, E., Szabo, M. & Cedar, L. 1961 (Data on hospital infection with staphylococci.) Egyszersegtdoany 5, 20-31. (E. sum.) Abstr: B. Hy. 37, 276.
- Johanczyk, J. 1961 (Demonstration of pyrogenic effects of a staphylococcal toxin in cul. 11 and appearance of a pyrogen during the activity of toxins on cells in vitro.) Col. Epidem. Mikrobiol. Immunol. 10, 226-239. (E. sum.) Abstr: Int. Ab. 24, 874.
- Kienitz, M. & Ritterfeld, W. 1961 Über die Beeinflussung des Bakterienwachstums durch Staphylokokken - Toxine. Klin. Wschr. 39, 750.
- Knights, H. T. 1961 Mercury resistance and epidemic strains of *Staphylococcus aureus*. Lancet 1, 398.
- Krasnoshchekova, E. S. 1960 Accelerated determination of pathogenicity in staphylococci. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 1899-1900. Abstr: Int. Ab. 24, 5483.
- Kretschmar, W. 1961 Kombinierte Typisierung von *Staphylococcus aureus* zur Erkennung von Hospitalinfektionen. Z. Hyg. InfektKr. 147, 447-460. Abstr: B. Hy. 37, 83; Int. Ab. 24, 5481.
- Laurell, G. & Toth-Gyulai, H. 1961 A study of the pathogenicity of *Staph. aureus* isolated from dust and hospital environment. Acta path. microbiol. scand. 51, 393-403. Abstr: B. Ab. 38, 2276; Int. Ab. 26, 3618.
- Leesing, R. J., Butcher, M. A. & Maynell, M. J. 1961 Mercury resistance and epidemic strains of *Staphylococcus aureus*. Lancet 1, 398-399.
- List, F. L. & Bronneis, B. 1961 Über Proteinen des Staphylococcus pyogenes aureus. Arch. Hyg. Berl. 145, 161-166. (E. sum.) Abstr: B. Ab. 36, 5325.

Characteristics Related to Pathogenicity--General and
Miscellaneous (Cont'd.)

- Maglietta, C. & Brunelli, M. A. 1961 (Modern views on primary and secondary staphylococcal infections. I. Pathogenetic and clinical concepts.) Bologna Med. 7, 100-119.
- Malik, B. S., Singh, C. M. & Adlakha, S. C. 1961 Studies on staphylococci with particular reference to strains from the bovine udder. V. Pathogenicity. Agra Univ. J. Res. Sci. 10, 171-185. Abstr: B. Ab. 22, 7418.
- Mano, D. & Kawakami, M. 1961 (Studies on staphylococci. 2. On the biological characteristics of penicillin-streptogramin resistant staphylococci. 3. Phenol mercurous chloride resistance behavior and coagulase action.) Jap. J. Bact. 16, 953-955; 1060-1063.
- Mariucci, I. 1961 Die Brauchbarkeit biologischer Reaktionen von Staphylococcus-Stämmen für epidemiologische Untersuchungen. (Abstr.) Zbl. Bakt. I Ref. 170, 82-83.
- Martin, A., Jr. 1961 Biochemical studies on the Micrococcaceae. Proc. Pa. Acad. Sci. 35, 57-62. Abstr: B. Ab. 22, 11143.
- Mattman, L. H., Tunstall, L. H. & Rossmore, H. W. 1961 Induction and characteristics of staphylococcal L forms. Canad. J. Microbiol. 7, 705-713. Abstr: B. Ab. 22, 14545; B. Hy. 22, 407; Int. Ab. 22, 3079.
- Mercier, P. 1961 (On staphylococci and staphylococcal infections.) Acta microbiol. belg. 6, 3-16.
- Macrobaum, I. & Taga, S. 1961 Formations capsulaires chez les variantes des staphylocoques soumis à l'influence des leucocytes in vivo. Arch. roum. Path. exp. Microbiol. 20, 591-597. Abstr: B. Hy. 22, 629.
- Macrobaum, I., Taga, S., Alexenco, E. & Stavri, D. 1961 La variabilité du staphylocoque doré sous l'influence des polymorphes du cobaye. Arch. roum. Path. exp. Microbiol. 20, 579-589. Abstr: B. Hy. 22, 629.
- Mireslav, K. 1961 (Postoperative staphylococcal enterocolitis. III. Analysis of pathogenic properties of isolated staphylococci.) Cas. Lek. ces. 100, 848-856.
- Morikawa, A. 1961 (Influence of cyanide on various biochemical properties of *Staphylococcus aureus*.) Nagasaki med. J. 26, 432-444. (J. sum. pp. *33-34).
- Mores, A. F. 1961 (Characteristics of drug-resistant strains of staphylococci isolated from patients and members of the hospital staff.) Antibiotiki 6(9), 67-73.
- Morrison, S. H., Fair, J. F. & Kennedy, K. K. 1961 *Staphylococcus aureus* in domestic animals. Publ. Hlth. Rep., Wash. 76, 673-677. Abstr: B. Ab. 22, 6716; B. Hy. 22, 203; V. B. 21, 3833.

Characteristics Related to Pathogenicity--General and
Miscellaneous (Cont'd.)

- Nicolau, St. G. & Radinciu, I. 1961 (Data on the pathogenicity and behavior to antibiotics of staphylococci isolated from cutaneous morbid processes.) Dermato-Venerol. 6, 1-8. (E. sum.) Abstr: B. Ab. 41, 7343.
- Ostashevskii, A. G., Obratsov, V. P. & Kotenko, I. I. 1960 (Biological properties of staphylococci taken from animals suffering from various diseases.) Trudy vsesoyuzn. Inst. vet. Sanit. 17, 82-85.
- Perelli, C. & D'Adda, I. 1961 Ricerche comparative sui vari metodi indiretti per l'accertamento della patogenicità degli stafilococchi. Igien. med. 54, 641-654. (E. sum.) Abstr: B. Ab. 40, 2966.
- Popovici, M. 1961 (Microbiological and epidemiological aspects in staphylococcal infections.) Microbiol. Parasitol. Epidemiol. Bucuresti 6, 45-54.
- Raimondi, A. 1961 Sulla valutazione del potere patogeno dei ceppi di *Staph. aureus*. Confronto tra i risultati dei testi biochimici in vitro e quelli della prova nel topolino di North e Christie. Igien. San. pubbl. 12, 590-596. (E. sum.) Abstr: B. Ab. 40, 15938.
- Rajchert-Trzepil, M. 1961 (Effect of culture media, temperatures and aeration on hyaluronidase synthesis by staphylococci.) Med. dosw. mikrobiol. 13, 97-104. Abstr: B. Hy. 36, 925; Int. Ab. 26, 5484; Z. B. 183, 132.
- Ritzerfeld, W. 1961 Beziehungen zwischen Atmungaktivität, Hämolysinbildung und Enterotoxinproduktion bei Staphylokokken. Zbl. Bakt. I Ref. 179, 345-346.
- Sakhnovs'ka, G. K., Shablovs'ka, E. O. & Dobzhans'kii, S. I. 1961 The effect of microcide on Staphylococcal flora in chronic diffuse strepto-staphylocerma.) J. Microbiol., Kiev 23 (1), 67-69. Abstr: B. Ab. 38, 23164.
- Salevic, D. 1961 The role of *Staphylococcus albus* in the pathogenesis of acute and chronic urethritis. Srpski Arh. 89, 686-696.
- Sato, G., Miura, S., Miyamae, T., Makagrava, M. & Ito, A. 1961 Characters of staphylococci isolated from dead chickens embryos and from pathological conditions in chickens. Jap. J. vet. Res. 9, 1-13. Abstr: Z. B. 184, 422; V. B. 31, 3837.
- Schmidt, J. 1961 Untersuchungen zur Frage des latenten Staphylokokken-Hospitalismus. (Abstr.) Zbl. Bakt. I Ref. 178, 80.
- Schmidt, J. 1961 Untersuchungen zur Frage des latenten Staphylokokken-Hospitalismus. Zbl. Bakt. I Orig. 181, 359-363. (E. sum.) Abstr: B. Hy. 36, 663; B. Ab. 41, 2873.
- Smirnov, S. G. 1961 (The oxidation-reduction properties and virulence of staphylococci sensitive and resistant to oxytetracycline.) Antibiotiki 6, 1114-1117.

Characteristics Related to Pathogenicity--General and
Miscellaneous (Cont'd.)

- Spampinato, V. 1961 Cromogenesi dello stafilococco per azione dell'ione manganese. *Boll. Soc. Ital. Biol. sper.* 37, 235-237.
- Steuer, W. 1961 Untersuchung über die Pigmentbildung von *Micrococcus pyogenes* auf synthetischen Nährböden. *Zbl. Bakt. I Orig.* 183, 444-451. (E. sum.)
- Swarts, M. W., Black, P. H. & Morselis, J. 1961 Effect of staphylococci on leucocyte pyridine nucleotides. *Nature, Lond.* 190, 516-518. Abstr: *Int. Ab.* 23, 3187; *B. Hy.* 36, 1167.
- Takagi, S., Bito, Y., Hironao, T. & Baba, T. 1961 On the characters, especially pathogenicity, of *Micrococccaceae* isolated from milk. *Bull. Univ. Osaka Prefect., Ser. B* 11, 51-53. Abstr: *B. Ab.* 38, 23277.
- Ved'mina, E. A., Golosova, T. V. & Sherderovich, V. A. 1961 (Biological properties of pathogenic staphylococci isolated from personnel at a maternity hospital.) *Lab. Delo* (7), 40-51. Abstr: *Referat. Zhur., Biol.*, 1962, No. 1B447.
- Yoshida, K. & Arai, Y. 1961 (Studies on Staphylococcus. 1. On coagulase, haemolysin and toxic substances in the cells separated by sonic oscillation.) *Jap. J. Dent.* 15, 1042-1043. Abstr: *B. Ab.* 39, 2617.
- Iudina, L. V. 1961 (Comparative characteristics of surface and intra-tissue microflora of the tonsils in patients with chronic tonsillitis.) *Bull. Otorhinolaryng., Lenigr.* (2), 64-68. Abstr: *Ab. S. M.* 5, 14402.
- Zivanovic, O. 1961 (Contribution to the study on pathogenic properties of *Staphylococcus albus* isolated from surgical materials and hands of the personnel in surgical ward.) *Vojnosanit. Precl.* 18, 261-264.

Characteristics Related to Pathogenicity--Coagulase and
Fibrinolysin

- Arrigoni, O., Negretti, F., Posaschinn, F. & Rossi, G. 1961 Ricerche sulla
inibizione della coagulasi stafilococcica da parte delle gamma-globuline.
Arch. Vet. Ital. 12, 505-511. (E. sum.)
- Blobel, H. & Berman, D. T. 1961 Further studies on the *in vivo* activity of
staphylococcal coagulase. J. Infect. Dis. 103, 63-67. Abstr: B. Ab. 36,
45505; B. Hy. 36, 797; Int. Ab. 25, 903.
- Cannon, F. D. & Hawn, C. V. Z. 1961 Rapid identification of coagulase-producing
staphylococci. Amer. J. clin. Path. 35, 468-471; Tech. Bull. Regist.
med. Techn. 31, 66-69. Abstr: B. Ab. 36, 85491; B. Hy. 36, 1292.
- Drummond, M. C. & Tager, M. 1961 Studies of the enzymatic mechanisms of plasma
clotting by staphylococcal coagulase. (Abstr.) Bact. Proc. 61, 111.
- Guadagno, G. 1961 (On differences in the sensitivity to antibiotics of
Staphylococcus strains isolated from coagulase-positive and coagulase-
negative foci.) Acta med. Ital. 16, 29-38.
- Hagen, J. H. & Ivler, D. 1961 Comparison of coagulase activity and oxidation of
Krebs' cycle intermediates by staphylococci. (Abstr.) Bact. Proc. 61, 111.
- Levinson, D. & Hirsch, W. 1961 Significance of coagulase-negative staphylococci
as agents of urinary tract infections. Bull. Res. Coun. Israel 21, 82.
- Malik, B. S. & Singh, C. M. 1961 Studies on staphylococci with particular
reference to strains from bovine udder. II. Coagulase activity. Agra
Univ. J. Res. Sci. 10, 47-55. Abstr: B. Ab. 36, 85260.
- Munch-Petersen, E. 1961 Staphylococcal coagulase: a survey of contributions
during the last two decades. Zbl. Bakt. I Ref. 178, 377-399.
- Oeding, P. 1961 (Coagulase-negative staphylococci.) Nord. med. 66, 1385.
- Osorio, R. V. 1961 (Staphylococcal coagulase.) J. Med., Porto 46, 835-854.
- Quie, P. G. & Wannamaker, L. W. 1961 Staphylococcal Muller phenomenon: relation-
ship to the plasminogen-plasmin system. J. Bact. 82, 770-783.
Abstr: B. Ab. 36, 2510; B. Hy. 37, 628.
- Sall, T. & Mudd, S. 1961 Relationship of some extracellular enzymes of *Staphylo-*
coccus aureus to nutritional conditions. (Abstr.) Bact. Proc. 61, 113.
- Sall, T., Mudd, S. & Taubler, J. 1961 Concerning the surfaces of cells of
Staphylococcus pyogenes. I. A pseudocapsulation phenomenon under
certain experimental conditions. J. exp. Med. 113, 693-700. Abstr:
Int. Ab. 23, 3183; B. Hy. 36, 926.
- Sword, C. P., Shikashio, T., Sword, M. C. & Martin, M. K. 1961 Quantitative
coagulase production by apparently coagulase negative strains of
staphylococci. (Abstr.) Bact. Proc. 61, 110.

Characteristics Related to Pathogenicity--Coagulase and
Fibrinolysin (Cont'd.)

- Tanimi, H. Q. 1961 Effect of Seitz filtration on extracellular staphylococcal coagulase. Canad. J. Microbiol. 7, 674-676.
- Wallerström, A. 1961 (Septicemia due to coagulase-negative staphylococci.) Nord. med. 66, 1375-1380. Abstr: B. Hy. 77, 58.
- Włodarczyk, K. & Jeljaszewicz, J. 1961 (Studies on staphylococcal coagulase. IV. Growth of staphylococci in normal sera with and without added coagulase.) Acta microbiol. polon. 10, 81-91. Abstr: Int. Ab. 26, 1249.
- Worms, R., Pillat, J., Clay, R. & Perrier, J. P. 1961 Du rôle de la coagulase élaborée par le staphylocoque dans la physiopathologie des infections staphylococcales. Pr. med. 60, 1131-1154. Abstr: Z. B. 182, 131.
- Zen-Yoji, H., Terayama, T., Banoki, M. & Kuwahara, S. 1961 Studies on staphylococcal coagulase. I. Antigenic difference of coagulase and distribution of the anticoagulase in human sera. II. Coagulase typing of staphylococci and its relation to phage typing. Jap. J. Microbiol. 5, 237-248; 367-374.

Characteristics Related to Pathogenicity--Hemolysin
and Leuocidin

- Matruka, K. 1961 (Studies on β -glucuronide formation in bacterial exotoxin. I. Influence of glucuronic acid on *Staphylococcus* hemolysin in vitro.) *J. pharm. Soc. Japan* 81, 908-910.
- Bergmann, F. & Leon, S. 1961 Pharmacological properties of *staphylococcus* beta-hemolysin. *Bull. Res. Coun. Israel* 21, 61-62.
- Bergmann, F., Leon, S., Chaimovitz, M. & Benzaquen, P. 1961 A comparative study of *staphylococcus* haemolysins and Colisan. *Brit. J. Pharmacol.* 17, 159-156. Abstr: *Z. B.* 184, 371; *B. Ab.* 41, 11681.
- Bergrahm, B. G. P. 1961 Physico-chemical study on the haemolytic activities of *Staphylococcus aureus*. *Acta chem. scand.* 15, 699. Abstr: *B. Ab.* 41, 17531.
- Coulter, J. R. 1961 Purification of staphylococcal toxins. (Abstr.) *Aust. J. Sci.* 24, 293.
- Del Campo, A. & Fazzi, P. L. 1961 (Activity of some chemotherapeutic and antibiotic agents on staphylococcal hemolysin. I. Action of novobiocin and some 3-aminocoumarin derivatives.) *Archsped. S. Anna Ferrara* 14, 67-79.
- Dohias, G., Ballo, T. & Kemenyvari, J. 1961 Über die Ätiologie und Klinik der Staphylokotikose im Säuglingsalter. *Z. Immunforsch.* 122, 114-133. (S. sum.) Abstr: *Int. Ab.* 25, 1060; *B. Hy.* 27, 482; *Z. B.* 184, 440; *B. Ab.* 40, 15360.
- Doery, H. M. & North, S. A. 1961 The interaction of staphylococcal toxin and gangliosides. I. Inactivation of the lethal effect of staphylococcal toxin in mice. *Aust. J. exp. Biol. med. Sci.* 39, 333-344. Abstr: *B. Ab.* 32, 18944; *Int. Ab.* 25, 781; *B. Hy.* 27, 409.
- Fazzi, P. L. & Del Campo, A. 1961 (Activity of some chemotherapeutic and antibiotic agents on staphylococcal hemolysin. II. Action of some sulfonamide mixtures. III. Action of some nitrofuran derivatives.) *Archsped. S. Anna Ferrara* 14, 91-97; 131-137.
- Goslin, K., Cluff, L. E. & Norman, P. S. 1961 Purification and characterization of *Staphylococcus* alpha-hemolysin. (Abstr.) *Fed. Proc.* 20, 35.
- Gray, R. F. 1961 Studies on staphylococcal hemolysins. *Diss. Abstr.* 22, 1352.
- Gray, R. F. & Ingley, P. B., Jr. 1961 Interrelationships of staphylococcal hemolysins. (Abstr.) *Bact. Proc.* 51, 110.
- Hildebrand, J. & Brandenburg, H. 1960 Beobachtungen über gegenseitige Beeinflussung bakterieller Hämolysen. *Zbl. Bakt. I Orig.* 180, 39-55. (S. sum.) Abstr: *Z. B.* 180, 263.

Characteristics Related to Pathogenicity--Hemolysins
and Leuococidin (Cont'd.)

- Houser, S. D. & Berry, L. J. 1961 The pathogenesis of staphylococcus infections. I. The use of diffusion chambers in establishing the role of staphylococcus toxins. *J. Infect. Dis.* 123, 24-30. Abstr: *B. Ab.* 32, 76828; *B. Hy.* 32, 299; *Z. B.* 184, 441.
- Houser, S. D. & Berry, L. J. 1961 The use of diffusion chambers in establishing the role of toxins in the pathogenesis of staphylococcus infections. (Abstr.) *Bact. Proc.* 61, 112.
- Israel, J., Oldstone, M., Levenson, S., Frank, Z. D. & Fins, J. 1961 Mechanism of action of staphylococcal toxin in rabbits. *Proc. Soc. exp. Biol., N. Y.* 108, 709-711. Abstr: *B. Hy.* 32, 764; *B. Ab.* 32, 22753.
- Kiyasaki, S. & Takarabe, M. 1961 On the production of staphylococcal alpha-toxin by the shaking culture method. *Jap. J. exp. Med.* 31, 425-434.
- Kogady, G. & Burton, A. L. 1961 (The effect of staphylococcal alpha-toxin on chick embryo cells in tissue culture.) *Path. Biol., Paris* 2, 831-833.
- North, S. A. & Doery, H. M. 1961 Inactivation of staphylococcal, tetanus and diphtheria toxins by ganglioside. *Brit. J. exp. Path.* 42, 23-29. Abstr: *B. Ab.* 32, 41761; *B. Hy.* 32, 716; *Int. Ab.* 23, 1000.
- Oehring, H. & Funk, G. 1961 Vergleichende Untersuchungen zur Toxinbildung von sensiblen und resistenten pyogenen Staphylokokken. *Arch. Hyg., Berl.* 145, 376-388. Abstr: *B. Hy.* 32, 203.
- Oroi, N., Poggiolini, D. & Tersani, G. 1961 (Action of some antibiotics on the hemolytic activity of *Staphylococcus aureus*.) *Nuovi Ann. Igiene Microbiol.* 12, 289-294.
- Poggiolini, D. & Tersani, G. 1961 (The inhibitory action of human gamma-globulin on the production of staphylococcal alpha-hemolysin.) *Riv. Ist. sieroter. ital.* 36, 256-261.
- Richou, R., Richou, (Mrs.) R. & Chirol, C. 1961 Action in vitro des gammaglobulines humaines d'origine placentaire sur le pouvoir antigenique et sur le pouvoir toxique de la toxine staphylococcique. *Ann. Scleavo* 3, 420-424. (3. sum.) Abstr: *B. Ab.* 32, 18981.
- Sy C.-D. 1960 (Changes in the toxic and other properties of *Staphylococcus aureus* under the effect of antibiotics.) *Antibiotiki* 5(3), 60-64. Abstr: *Ab. S. M.* 5, 1320.
- Thil, A. P. & Egner, W. 1961 The site of action of the staphylococcus alpha toxin. *J. exp. Med.* 113, 67-82. Abstr: *Int. Ab.* 22, 3131.
- Vollmer, K.-J. 1961 Scharlachkrankungen durch Staphylokokken. *Munch. med. Wschr.* 103, 2382-2385. (3. sum.) Abstr: *Z. B.* 184, 433.

Characteristics Related to Pathogenicity--Hemolysins
and Leucocidin (Cont'd.)

- Wiegertshausen, B. 1961 On the pharmacology of staphylococcus toxin (Wood 46).
1st report: the lethal action of staphylococcus toxin. Acta biol.
med. germ. 6, 86-98.
- Woodin, A. M. 1961 Assay of the two components of staphylococcal leucocidin
and their antibodies. J. Path. Bact. 81, 63-68. Abstr: B. Ab. 36,
53640, Int. Ab. 22, 4924; Z. B. 184, 428.
- Woodin, A. M. 1961 The effect of staphylococcal leucocidin on the leucocyte.
Biochem. J. 89, 562-572. Abstr: B. Ab. 37, 9237; Int. Ab. 24, 875.
- Zalay, L., Kiss, I., Füveszky, J. & Dobius, G. 1961 Die Produktion eines
hoch antigen Staphylokokken-Toxins in Fermentor. Zbl. Bakt. I Orig.
183, 160-166. (S. sum.) Abstr: B. Hy. 32, 407; Z. B. 184, 425.
- Zawisza-Zunktelor, W. 1961 (Glycogen level in white blood cells surviving in
vitro. II. Influence of some chemical factors.) Arch. Immun. Terap.
dosw. 9, 105-115. Abstr: Int. Ab. 36, 193.

Characteristics Related to Pathogenicity--Phosphatase
and Deoxyribonuclease

- Ahatov, A. K. & Lebedev, Z. I. 1961 (On the quantitative relation between the phosphatase activity of staphylococci, their pathogenic properties and penicillin resistance.) *Antibiotiki* 6, 363-368.
- Alexander, M., Heppel, L. A. & Harwitz, J. 1961 The purification and properties of micrococcal nuclease. *J. biol. Chem.* 236, 3014-3019. Abstr: Int. Ab. 25, 2318; B. Ab. 25, 19084.
- Avakyan, A. O. 1960 p-Nitrophenyl phosphate as a substrate for determination of bacterial phosphatase. (Transl.) *J. Microbiol. Epidemiol. Immunobiol. U.S.S.R.* 31, 2071-2075. Abstr: Int. Ab. 25, 2420.
- Inniss, W. E. & San Clemente, C. L. 1961 Association of staphylocoagulase and staphylocophosphatase activities in partially purified preparations. (Abstr.) *Bact. Proc.* 61, 110.
- Kuo, M. H. & Blumenthal, H. J. 1961 Absence of phosphatase repression by inorganic phosphate in some microorganisms. *Nature, Lond.* 190, 29-31. Abstr: B. Ab. 26, 49085; Int. Ab. 22, 4928.
- Lewis, B. 1961 Phosphatase production by staphylococci--a comparison of two methods. *J. med. Lab. Tech.* 18, 112-113. Abstr: B. Hy. 26, 1166.
- Mitina, V. S. 1960 Phosphatase activity of certain species of bacteria. (Transl.) *J. Microbiol. Epidemiol. Immunobiol. U.S.S.R.* 31, 2113-2116. Abstr: Int. Ab. 25, 2421.
- Pan, Y. L. & Blumenthal, H. J. 1961 Correlation between acid phosphatase and coagulase production or phage-type of *Staphylococcus aureus*. (Abstr.) *Bact. Proc.* 61, 110.
- Pan, Y.-L. & Blumenthal, H. J. 1961 Correlation between acid phosphatase and coagulase production or phage type of *Staphylococcus aureus*. *J. Bact.* 82, 124-129. Abstr: B. Ab. 26, 72930.
- Reddi, K. K. 1961 Action of micrococcal phosphodiesterase on polyribonucleotides terminated by guanylic acid. *Biochim. biophys. Acta* 47, 47-51. Abstr: Int. Ab. 25, 334.

Characteristics Related to Pathogenicity--Lipases

- Alford, J. A. & Blankenship, L. C. 1961 Differences in specificity of lipases from species of *Pseudomonas* and *Staphylococcus*. (Abstr.) *Bact. Proc.* 61, 171.
- Blöbel, H., Shah, D. B. & Wilson, J. B. 1961 Serologic studies on the egg yolk factor isolated from coagulase-positive staphylococci. *J. Immunol.* 87, 285-289. Abstr: B. Ab. 32, 10473; B. Hy. 32, 299; Int. Ab. 22, 1247.
- Jettmar, H. M. & Reisenhofer, U. 1961 Sinteilungsmöglichkeiten von Staphylococcus-pyogenes-Stämmen durch das verschiedene Verhalten ihrer Lipasen. *Arch. Hyg., Berl.* 145, 274-282. Abstr: B. Hy. 32, 1292.
- Pernice, A. 1961 Sull'azione lipolitica dello stafilococco. I. Attività aliesterasica e lipazica. *G. Microbiol.* 2, 170-178. Abstr: B. Ab. 40, 2631.
- Richou, R., Quinchon, C. & Richou, (Mme.) R. 1961 (On the immunizing power of lipase present in the culture filtrate of various staphylococci.) *Rev. Path. gen.* 61, 313-317.
- Tedesco, Z. 1961 Influenza del cloruro di sodio sulla attività lipolitica dello stafilococco. *Boll. Soc. Ital. Biol. sper.* 37, 245-247.
- Torlone, V. & Millo, A. 1961 Sull'attività esterasica degli stafilococchi. III. Attività aliesterasica sulla tributirrina evidenziata mediante impiego di esteri fosforici quali inhibitori. *Boll. Ist. sieroter. Milano* 40, 575-579. (E. sum.) Abstr: B. Ab. 32, 19541; Int. Ab. 32, 491.
- Torlone, V. & Titli, F. 1961 Sull'attività esterasica degli stafilococchi. I. Attività fosfomonoesterasica di stipi diversi origine. II. Caratterizzazione dell'attività lipasica mediante impiego di diversi substrati e di inhibitori fosforici. *Boll. Ist. sieroter. Milan.* 40, 562-569; 569-574. (E. sum.) Abstr: B. Ab. 32, 19542; 19543; Int. Ab. 32, 491.
- Vacai, L., Fodor, M. & Parkas, L. 1961 Association between lipid metabolism and antibiotic sensitivity. II. The influence of esterase inhibitors on the antibiotic sensitivity of *Staphylococcus aureus* strains. *Acta microbiol. Acad. Sci. Hung.* 9, 215-221. Abstr: B. Ab. 32, 2081; Z. B. 184, 433.

Characteristics Related to Pathogenicity--Endotoxins

- Bass, J. A. & Higginbotham, R. D. 1961 The interaction of *Staphylococcus* endotoxin and alpha toxin in mice. (Abstr.) *Bact. Proc.* 51, 109.
- Dvoretzky, M., Camerino, M. & Beizer, S. M. 1961 Studies of materials derived from *Staphylococcus*. VI. Relationship between fractions A (Dvoretzky) and antigen A (Jensen). (Abstr.) 4th Int. Congr. Allergology. Excerpta Med. Intern. Congr. Ser. No. 42, 87-88.
- Kerr, R. H., Sanderson, R. G., Bigelow, J. C., Slama, J. O. & Vetto, R. M. 1961 Changes in estimated hepatic blood flow with non-shocking doses of *Staphylococcus* toxin. *Surg. Forum* 12, 32-34.
- Higginbotham, R. D. & Bass, J. A. 1961 Some host responses to staphylococcal endotoxin. (Abstr.) *Bact. Proc.* 51, 109.
- Higginbotham, R. D. & Bass, J. A. 1961 Effect of mucin and cortisol on resistance of mice to two different strains of *S. aureus* and the possible importance of endotoxin in the infectious process. *Tox. Rep. Biol. Med.* 19, 283-299. Abstr: B. Ab. 26, 69C88; B. Hy. 26, 1293; Z. B. 164, 426.
- Jensen, K., Meter, Z., Gorsynski, E. A. & Anzai, H. 1961 Studies on toxic products of *Staphylococcus*. *Acta path. microbiol. scand.* 53, 191-200.
- Millich, Z. & Meter, Z. 1961 Necrotizing effects of *Staphylococcus aureus* extract on mouse sarcoma 180. *Proc. Soc. exp. Biol.. N. Y.* 105, 97-101.
- Sultzer, B. M. & Freedman, H. H. 1961 Increase in nonspecific resistance to infection in mice following administration of staphylococcal extracts. *Proc. Soc. exp. Biol., N. Y.* 107, 60-63. Abstr: B. Ab. 26, 65977; B. Hy. 27, 439; V. B. 31, 3835.

Staphylococci in Foods; Food Poisoning; Enterotoxin

- Altengrewe, W. 1961 Pathogene Staphylokokken als Ursache einor Lebensmittelvergiftung in Dortmund. Arch. Lebensmittelhyg. 12(9), 193-194. Abstr: Z. B. 104, 446.
- Angioletti, R., Poter, M. J. & Lewis, K. H. 1961 Time-temperature effects on salmonellas and staphylococci in foods. I. Behavior in refrigerated foods. II. Behavior at warm holding temperatures. Amer. J. publ. Hlth 51, 76-82; 83-88. Abstr: B. Ab. 36, 3625; B. Hy. 36, 645.
- Angioletti, R., Poter, M. J. & Lewis, K. H. 1961 Time-temperature effects on salmonellas and staphylococci in foods. III. Thermal death time studies. Appl. Microbiol. 9, 308-315. Abstr: B. Ab. 37, 6789; B. Hy. 37, 260; Z. B. 104, 91.
- Ballieri, G., Chiti, M. L. & Cordalli, F. 1960 (Recent observations on the so-called enterotoxic staphylococcal toxin.) Atti Accad. Fisicoer. Siena (sez. med.-fis.) 7, 472-488.
- Bergdoll, M. S., Sugiyama, H. & Deck, G. M. 1961 The recovery of staphylococcal enterotoxin from bacterial culture supernatants by ion exchange. Biochem. microbial. Tech. Eng. 3, 41-50.
- Bircul, A., Schärer, P., Gheorghiu, M. & Smilovici, M. 1961 (Staphylococci carriers in the foodstuff industry.) Igiena, Bucharest 10, 121-129. (Z. sum.) Abstr: B. Hy. 37, 26.
- Blagojevic, S. & Mijalkovic, A. 1961 (Staphylococcal enterotoxin as a causative agent in food poisoning.) Glasn. Hig. Inst. 10, 49-54.
- Burianka, M., Pliszka, A. & Burianka, H. 1961 (Studies on the carriage of enterotoxic staphylococci in selected food plants and the correlation between phage and serological types, antibiogram and enterotoxin production.) Med. dosw. mikrobiol. 13, 309-321. (Z. sum.) Abstr: B. Hy. 37, 627; Z. B. 104, 449.
- Coffman, E. P. & Bennett, R. W. 1961 Simplified procedure for producing small amounts of potent staphylococcal enterotoxin. (Abstr.) Bact. Proc. 61, 121.
- Chalmers, C. H. 1961 A review of the milk supply in Scotland. Hlth. Bull., Edinb. 19, 48-51. Abstr: B. Hy. 37, 361.
- Clark, W. G., Vandervoot, G. F. & Borison, H. L. 1961 Injetic and pyrogenic effects of staph. enterotoxin (S. E.) in cats. (Abstr.) Fed. Proc. 20, 320.
- Clark, W. S., Jr. & Nelson, F. Z. 1961 Multiplication of coagulase-positive staphylococci in grade A raw milk samples. J. Dairy Sci. 44, 232-236. Abstr: B. Ab. 36, 4504.
- Cust, G. & Finch, J. W. 1961 An outbreak of staphylococcal food poisoning. Med. Offr. 106, 98-99. Abstr: B. Hy. 36, 1250.

Staphylococci in Foods; Food Poisoning; Enterotoxin (Cont'd.)

- Derkach, V. M. 1961 (The detoxicating and disinfecting properties of mycerin in relation to the botulinus and staphylococcal toxins.) Antibiotiki 6, 1006-1009.
- Drumek, W. 1961 Contamination of sweet vending machines. Med. Offr. 106, 171-172. Abstr: B. Hy. 32, 260.
- Erdman, I. E., Thatcher, F. S. & MacQueen, K. F. 1961 Studies on the irradiation of microorganisms in relation to food preservation. I. The comparative sensitivities of specific bacteria of public health significance. II. Irradiation resistant mutants. Canad. J. Microbiol. 7, 199-205; 207-215. Abstr: B. Ab. 36, 4983b; 49835.
- Fee, W. M. 1961 An unusual vehicle of infection. Hlth. Bull., Edinb. 12, 10-12. Abstr: B. Hy. 32, 544.
- Food poisoning. 1961 Lancet 1, 384.
- Food poisoning in England and Wales, 1960. 1961 Mon. Bull. Minist. Hlth. Lab. Serv. 20, 160-171. Abstr: B. Hy. 32, 261.
- Food-poisoning in 1960. 1961 Brit. med. J. 2, 880.
- Castaldi, C. & Galvagni, R. 1960 Su alcune tecniche microbiologiche per il giudizio di salubrità del gelato. G. Batt. Viro. Immun. 53, 281-291. Abstr: Z. B. 182, 151.
- Coogins, J. A., Collins, J. R., Marshall, A. L., Jr. & Offutt, A. C. 1961 Two gastroenteritis outbreaks from ham in picnic fare. Publ. Hlth. Rep.. Wash. 76, 945-954. Abstr: B. Ab. 36, 6750; B. Hy. 32, 716.
- Handa, A. H., Symons, H. W. & Vineall, T. J. P. 1961 Hygiene in frozen food factories. Lectures 1, 2 and 3. J. R. Inst. publ. Hlth. 28, 217-225. Abstr: B. Hy. 32, 259.
- Hayashi, K., Kugata, Y. & Maito, T. 1960 Etiological observations on bacterial food poisoning for a five year period from 1955 to 1959 in Nagasaki City. Endemic Dis. Bull. Nagasaki Univ. 2, 181. Abstr: Z. B. 184, 95.
- Hoffmann, O. 1961 Das Staphylokokkenproblem und seine Auswirkung auf das Fleischbeschaffungsrecht. Schlacht- u. Viehhof-Ztg. 61, 48-50.
- Hopper, S. H. & Devalois, D. G. 1961 Modification of Staphylococcus enterotoxin with beta-propiolactone. (Abstr.) Fict. Proc. 61, 109.
- Iida, Y. & Shiota, S. 1961 (Regarding supervision of sanitation of caterer's shop which caused staphylococcal food poisoning.) (Abstr.) Jap. J. vet. Sci. 23 (Suppl.), 430.

Staphylococci in Foods; Food Poisoning; Enterotoxin (Cont'd.)

- Jay, J. M. 1961 Incidence and properties of coagulase-positive staphylococci in certain market meats as determined on three selective media. *Appl. Microbiol.* 5, 228-232. Abstr: *B. Ab.* 36, 65458; *Z. B.* 184, 93.
- Jay, J. M. 1961 Some characteristics of coagulase-positive staphylococci from market meats relative to their origins into the meats. *J. Food Sci.* 26, 631-634.
- Jezeski, J. J. 1961 Is *Staphylococcus* our next problem? *Conv. Proc. Milk Indust. Found.* 54, 22-31.
- Kereluk, K. & Gunderson, M. F. 1961 Survival of bacteria in artificially contaminated frozen meat pies after baking. *Appl. Microbiol.* 9, 6-10. Abstr: *B. Ab.* 36, 34632; *B. Hy.* 26, 1002; *Z. B.* 182, 155.
- Kereluk, K., Peterson, A. C. & Gunderson, M. F. 1961 Effect of different temperatures on various bacteria isolated from frozen meat pies. *J. Food Sci.* 26, 21-25. Abstr: *B. Ab.* 36, 57611.
- Krasnitskaya, S. S. 1960 (Staphylococcus intoxication of dairy products from cows with mastitis.) *Trudy vsesoyuzn. Inst. vet. Sanit.* 17, 204-207.
- Lachowicz, H. 1959 (Staphylokokkenträger unter den Angestellten der Nahrungsmittelindustrie.) *Med. dosv. mikrobiol.* 11, 339-343. Abstr: *Z. B.* 180, 503.
- Lebedev, G. I., Meshov, A. I. & Borisov, I. I. 1961 (On the diagnosis of Staphylococcus food infections.) *J. Microbiol.*, Moscow 32(12), 116.
- Loens, U. & Grün, L. 1961 (On food poisoning caused by enterotoxic staphylococci.) *Öff. GesundhDienst.* 23, 607-611.
- McKenzie, D. A. & Hunter, A. C. 1961 Further studies on the disinfection of cows' teats prior to milking. *J. appl. Bact.* 24, 71-77. Abstr: *V. B.* 32, 647.
- Messer, J. 1961 Beitrag zur Differenzierung in Milch vorkommender Staphylokokken. *Inaug. Diss.*, Justus Liebig-Universität, Giessen. 36 pp.
- Mickelsen, R., Poltz, V. D., Martin, W. H. & Hunter, C. A. 1961 The incidence of potentially pathogenic staphylococci in dairy products at the consumer level. II. Cheese. *J. Milk Tech.* 34, 342-345.
- Microbiological standards for foods. 1960 *Publ. Hlth. Rep.*, Wash. 25, 815-822. Abstr: *Z. B.* 182, 152.
- Mino, K. & Otsuka, Y. 1961 (Studies on staphylococcus-viciaeinitiae of staphylococci during the process of powdered milk production.) *J. Jap. vet. med. Ass.* 14, 479-483. (J. sum.)
- Mullet, E., Jr. & Friedman, M. S. 1961 Inhibition of staphylococcal enterotoxin production in broth cultures. (Abstr.) *Bact. Proc.* 61, 108.
- Murray, J. G. 1960 Studies concerning the reducing properties of *Staphylococcus aureus* Rosenbach in raw milk. *Res. & exp. Rec.*, N. Ireland 10, 163-166.

Staphylococci in Foods; Food Poisoning; Enterotoxin (Cont'd.)

- Murray, J. G. 1960 The incidence and possible significance of *Staphylococcus aureus* in milk. Res. & exp. Rec., N. Ireland 10, 167-174.
- Perelli, C. 1961 Alcuni risultati sull'efficacia della ricerca dei portatori nella profilassi delle tossinfezioni da stafilococco enterotossico. Igienia mod. 52, 812-818. (E. sum.) Abstr: B. Hy. 22, 1140; B. Ab. 41, 15730.
- Petrovskii, K. S. 1960 (Staphylococcal food poisoning. Etiology.) Klin. Med., Mosk. (3), 15.
- Popov, G. P. & Polyakova, I. L. 1961 (Toxinfection of staphylococcal etiology, provoked by the milk of cows afflicted with udder pyodermia.) J. Microbiol., Moscow 32(2), 119-121. (E. sum.) Abstr: Ab. S. M. 5, 3662.
- Popov, G. P. & Polyakova, I. L. 1961 Food poisoning of staphylococcal etiology caused by consumption of milk from cows afflicted with suppurative conditions of the udder. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 336-338. Abstr: B. Ab. 22, 7050.
- Post, F. J., Bliss, A. H. & O'Keefe, W. B. 1961 Studies on the ecology of selected food poisoning organisms in foods. I. Growth of *Staphylococcus aureus* in cream and a cream product. J. Food Sci. 26, 436-441. Abstr: B. Ab. 22, 15040.
- Radomanska, K. 1961 (Appearance of enterotoxic staphylococci in diseases of the upper respiratory tract.) Pol. med. wklly 16, 671-673. (E. sum.) Abstr: B. Ab. 41, 7352.
- Raj, H. & Liston, J. 1961 Survival of bacteria of public health significance in frozen sea foods. Food Tech., Champaign 15, 429-434. Abstr: B. Ab. 22, 19216.
- Ravenholt, R. T., Zelkema, R. C., Mulhern, M. & Watkins, R. B. 1961 Staphylococcal infection in meat animals and meat workers. Publ. Hlth. Rep., Wash. 76, 879-888. Abstr: B. Hy. 22, 383; V. B. 32, 1265.
- Ritzerfeld, W. & Kienitz, M. 1961 Über die Korrelation von Enterotoxinbildungsfähigkeit und Penicillenresistenz bei Staphylokokken. Zbl. Bakt. I Orig. 181, 29-33. (Z. sum.) Abstr: B. Hy. 22, 797; Z. B. 181, 446; B. Ab. 41, 11015.
- Roughley, R. J. & McLeod, R. W. 1961 Longevity of *Staphylococcus aureus* in Australian Cheddar cheese. Aust. J. Dairy Tech. 16, 110-112.
- Sasaki, Z. 1960 (On the behavior of pathogenic staphylococci in food handlers at factory kitchens in Osaka.) J. Osaka City Med. Center 2, 4431-4441. (Z. sum.) Abstr: B. Ab. 22, 14926.

Staphylococci in Foods; Food Poisoning; Enterotoxin (Cont'd.)

- Scaliger, H. P. R. & Werner, H. 1961 Zur Hygiene der Heilwässer, Mineralwässer und Limonaden in der Bundesrepublik. Z. Hyg. Infektkr. 147, 470-487.
Abstr: Int. Ab. 24, 5875.
- Smar, I. V. 1960 (Immediate tasks of veterinary-sanitary inspection for the prevention and control of toxicoinfections and toxicoses from food.) Brudy vsesoyuzn. Inst. vet. Sanit. 17, 24-34.
- Sidorenko, B. F. 1961 (An outbreak of staphylococcal alimentary infection.) Vo.-med. Zh. (6), 48-49.
- Silverman, G. J., Davis, M. S., Nickerson, J. T. R., Duncan, D. W., Tescan, I. & Johnson, M. 1961 Microbial analysis of frozen raw and cooked shrimp. II. Certain characteristics of *Staphylococcus* isolates. Food Tech., Champaign 15, 458-464.
- Silverman, G. J., Nickerson, J. T. R., Duncan, D. W., Davis, M. S., Schachter, J. S. & Joselow, M. M. 1961 Microbial analysis of frozen raw and cooked shrimp. I. General results. Food Tech., Champaign 15, 455-458.
Abstr: B. Ab. 26, 19598.
- Smith, J. 1961 Reviews of the progress of dairy science. Section F. Milk-borne disease. J. Dairy Res. 28, 87-107. Abstr: B. Ab. 26, 6534.
- Strong, D. H., Woodburn, M. J. & Mancini, M. M. 1961 Preliminary observations on the effect of sodium alginate on selected nonsporing organisms. Appl. Microbiol. 2, 213-218. Abstr: B. Ab. 26, 65408.
- Sugiyama, H., Chow, K. L. & Dragstedt, L. R., II 1961 Study of emetic receptor sites for staphylococcal enterotoxin in monkeys. Proc. Soc. exp. Biol., N. Y. 108, 92-95.
- Sylvester, P. K. & Green, J. 1961 The effect of different types of cooking on artificially infected meat. Med. Offr. 105, 231-235. Abstr: B. Hy. 26, 877.
- Szczesi, K. 1961 Das Vorkommen pathogener Staphylokokken in der Ernährungsindustrie. Zbl. Bakter. I Orig. 183, 352-356. Abstr: B. Hy. 32, 466; Z. B. 184, 446.
- Thatcher, F. S. & Loit, A. 1961 The comparative microflora of chlortetracycline-treated and nontreated poultry with special reference to public health aspects. Appl. Microbiol. 2, 39-44. Abstr: B. Ab. 26, 34839; Z. B. 182, 150.
- Uherko, J. 1961 (Evaluation of pathogenicity of staphylococci isolated during sanitary control of food of animal origin.) Vet. Cas. 10, 425-436. (E. sum.)
- Walker, G. C., Harmon, L. G. & Stine, C. M. 1961 Staphylococci in Colby cheese. J. Dairy Sci. 44, 1272-1282. Abstr: B. Ab. 27, 2494.

Staphylococci in Foods; Food Poisoning; Enterotoxin (Cont'd.)

- Wierschowski, J., Osmowink, Z. & Czarnowska, W. 1959 (Nahrungsmittelvergiftung durch Staphylokokken nach Genuss von Büchsenfisch in Öl.) Przegl. epidem. 13, 181-184. Abstr: Z. B. 181, 131.
- Zinn, R. D., Anderson, G. R. & Skaggs, J. W. 1961 The public health significance of staphylococcal infection in cattle. J. Amer. vet. med. Ass. 138, 382-386. Abstr: V. B. 31, 2797.

Mastitis in Animals

- Fatis, J. & Drobnic, L. 1961 (Treatment of staphylococcal mastitis in cows.) Vet. Glasn. 15, 751-754.
- Cernei, I., Bangau, S., Draghici, C., Butura, I. & Popovici, V. I. 1961 (Bacteriological study of mastitis of sows.) Lucr. Inst. Pat. Igiena anim., Bucuresti 11, 201-205. Abstr: B. Ab. 41, 11526.
- Cornac, I., Draghici, C., Bangau, S. & Butura, I. 1961 (Bacteriological study on mastitis of cows.) Lucr. Inst. Pat. Igiena anim., Bucuresti 11, 79-88. (R. & F. sum.) Abstr: B. Ab. 41, 7548.
- Contini, A. & Pisani, S. 1960 Le tossini dei micrococcochi della mastite gangrenosa. Atti Soc. Ital. Sci. vet. 14, 669-672. (E. sum.)
- Czernicki, B. 1961 Mastitisstaphylokokken. Berl. Münch. tierärztl. Wschr. 74, 298-299. (3. sum.) Abstr: Z. B. 184, 442.
- Davidson, I. 1961 The epidemiology of staphylococcal mastitis. Vet. Rec. 73, 1015-1018.
- Davidson, I. 1961 Observations on the pathogenic staphylococci in a dairy herd during a period of six years. Res. vet. Sci. 2, 22-40. Abstr: B. Ab. 32, 19173; V. B. 31, 981.
- Derbyshire, J. B. 1961 The immunity of staphylococcal mastitis. Vet. Rec. 23, 1011-1014. Discussion, 1024-1032, 1033. Abstr: V. B. 32, 644.
- Fleming, L. W. & Paton, I. M. 1961 Studies on bovine staphylococcal mastitis. II. Characterization of isolates. Amer. J. vet. Res. 22, 970-974. Abstr: V. B. 32, 1320.
- Frank, H. A. & Pounden, W. D. 1961 The effect of diethylstilbestrol and progesterone on the growth of four mastitis-producing bacteria. Amer. J. vet. Res. 22, 32-36. Abstr: V. B. 31, 2116.
- Fratta, I., Mann, P. H. & Sigg, E. B. 1961 Bacteriophage typing and sensitivity testing to chlorquinadol of staphylococci isolated from bovine mastitis. Canad. J. comp. Med. 25, 96-97.
- Heimonas, H. A. 1961 (Bacteriology of bovine mastitis in Northern Greece.) Thesis, Thessaloniki. pp. 131. (E. sum.) Abstr: V. B. 32, 651.
- Jungerman, P. 1961 A potential source of bovine mastitis. Vet. Med. 56, 7-9. Abstr: V. B. 31, 2413.
- Lernau, H., Blazer, R. & Sompolinsky, D. 1961 (The aetiological investigation of an outbreak of staphylococcal mastitis in a flock of sheep). Refut. vet. 18, 8-9. (In d., p. 50.)
- Maffey, J. & Uvarov, O. 1961 Novobiocin in the treatment of staphylococcal mastitis in cows. Vet. Rec. 23, 965-967. Abstr: V. B. 32, 645.

Mastitis in animals (Cont'd.)

- Rounden, W. D. & Frank, H. A. 1961 Influence of forages on mastitis. J. Amer. vet. med. Ass. 138, 145-150. Abstr: V. B. 31, 2412.
- Rampon, R. & Barbesier, J. 1960 Contribution à l'étude bactériologique de laits de vaches atteintes de mastite en Algérie (1955-1959). Arch. Inst. Pasteur Alger. 38, 215-221. Abstr: V. B. 31, 2114.
- Rodaelli, G. 1959 Micrococcaceae and bovine mastitis. Proc. XVIth int. Vet. Congr., Madrid 2, 191-192.
- Rodaelli, G. 1961 Contributo allo studio delle caratteristiche biologiche degli stafilococchi isolati da mastiti bovine. Arch. Vet. ital. 12, 513-538. (3. sum.) Abstr: V. B. 32, 1722.
- Rodaelli, G., Socci, A. & Mataloni, P. 1961 Ricerche sulla diffusione e l'etiologia della mastite stafilococcica. Arch. Vet. ital. 12, 289-306. (3. sum.)
- Renk, W. 1961 Pathogenese der durch Staphylokokken hervorgerufenen Euterentzündungen. Berl. Münch. tierärztl. Wschr. 74, 1-4. (3. sum.) Abstr: Z. B. 184, 442.
- Sæter, S. A. & Eieland, S. 1961 (Mastitis in sheep in the Norwegian mountains.) Nord. VetMed. 13, 32-44. (3. sum.) Abstr: V. B. 31, 2115.
- Seeliger, H. E., Borda, E. P. & Haase, R. W. 1961 Clinical observations on novobiocin for staphylococcal mastitis. Vet. Med. 56, 507.
- Socci, A. & Rodaelli, G. 1961 Sull'isolamento dagli stafilococchi dal latte mastitico. Atti Soc. Ital. Sci. vet. 14, 664-666. (3. sum.)
- Teute, H.-W. 1961 Prädisponierende Faktoren für das Auftreten von Mastitis und Untersuchungen über die Zusammensetzung von Mastitismilch. Berl. Münch. tierärztl. Wschr. 74, 185-189. (3. sum.) Abstr: V. B. 31, 3460.
- Thörne, H. & Wallmark, G. 1961 Treatment of bovine staphylococcal mastitis with staphylococcal toxoid. Acta vet. scand. 2, 323-329. Abstr: B. Ab. 38, 15382; V. B. 32, 2510.
- Tsonev, T. & Mateev, M. 1961 (I. Causes of ovine infectious mastitis: staphylococci, streptococci, E. coli and Cl. welchii. II. Epidemiology of ovine mastitis.) Izv. vet. Inst. zarae. parazit. Boletin, Sofia 2, 197-202; 203-219. (3. & 4. sums.) Abstr: V. B. 32, 1322.
- White, F. & McDonald, I. 1961 Some observations on an outbreak of staphylococcal mastitis in a dairy herd. J. comp. Path. 71, 159-170. Abstr: Z. B. 184, 443; V. B. 31, 3122.
- Wilson, C. D. 1961 The treatment of staphylococcal mastitis. Vet. Rec. 23, 1019-1024. Discussion, 1024-1032, 1033. Abstr: V. B. 32, 644.
- Wilson, C. D. & Davidson, I. 1961 The control of staphylococcal mastitis. Vet. Rec. 23, 321-323. Abstr: Z. B. 184, 444; V. B. 31, 2796.

Experimental Infections

- Arghittu, C. & Prandini, B. D. 1961 Studi ed esperienze di radiomicrobiologia.
2. Distribuzione di stafilococco enterotossico marcato con Fe59 in cave inoculate per via intraperitoneale e concentrazione del radioelemento nel tratto gastro-enterico. Igienia med. 5, 188-199. Abstr: Z. P. 184, 437.
- Arsecularatne, S. M. 1961 Reduction in l-noradrenaline sensitivity of blood vessels in acutely inflamed tissue. J. Path. Bact. 92, 526-529. Abstr: Int. Ab. 25, 3038; B. Ab. E, 19307.
- Bazan, O. I. 1961 (Staphylococcal pneumonias in radiation injury.) Arkh. Pat. 23(8), 32-39.
- Beck, D., Freedman, L. R., Levitin, H., Ferris, T. F. & Epstein, F. H. 1961 Effect of experimental pyelonephritis on the renal concentrating ability of the rat. Yale J. Biol. Med. 24, 52-59. Abstr: Int. Ab. 24, 5435; B. Ab. E, 22735.
- Bedivan, M. 1960 (Morphological aspects in experimental staphylococcal septicemia treated with antibiotics.) Stud. Cercet. Med. 11, 383-387. (R. & P. sum.) Abstr: B. Ab. E, 2481.
- Bedivan, M. 1961 (Morphological aspects in experimental staphylococcal septicaemia treated with antibiotics.) Microbiol. Parazitol. Epidemiol., Bucuresti 6, 42-45.
- Borukaev, R. K. 1960 (Changes in the higher nervous activity of white rats provoked by experimental staphylococcal intoxications and infections.) In: Trudy Instituta Vysshei Nervnoi Deyatel'nosti (Transl.) Pathophysiological Ser. Vol. III. Office of Technical Services, U. S. Department of Commerce. pp. 99-118. Abstr: B. Ab. 32, 15704.
- Borukaev, R. K. 1960 (Therapy, by prolonged sleep, of disorders in the higher nervous activity, induced in white rats by staphylococcal intoxication.) In: Trudy Instituta Vysshei Nervnoi Deyatel'nosti (Transl.) Pathophysiological Ser. Vol. III. Office of Technical Services, U. S. Department of Commerce. pp. 240-248. Abstr: B. Ab. 32, 9454.
- Braude, A. I. & Baisberg, G. E. 1961 (Reticulo-endothelial system and bacterial polysaccharides.) Dokl. Akad. Nauk S.S.R. 12, 453-455. Abstr: Int. Ab. 26, 2431.
- Burke, J. F. 1961 The effective period of preventive antibiotic action in experimental incisions and dermal lesions. Surgery 50, 161-168.
- Burke, J. F. & Friberg, U. 1961 A microradiographic study of developing staphylococcal inflammation using ultra-soft roentgen rays. Surg. Forum 12, 38-40.
- Carey, W. P., Russell, H. E. & O'Connor, J. R. 1961 The effect of nitrofurans on the survival of bacteria in vivo. Antimicrobial Agents Ann., 1960 pp. 152-158. Abstr: B. Ab. 32, 19930.

Experimental Infections (Cont'd.)

- Condie, J. D. & Ferguson, D. J. 1961 Experimental wound infections: contamination versus surgical technique. *Surgery* 50, 367-371. Abstr: Int. Ab. 25, 3034.
- Conti, C. R., Cluff, L. S. & Schedler, E. P. 1961 Studies on the pathogenesis of staphylococcal infection. IV. The effect of bacterial endotoxin. *J. exp. Med.* 113, 845-860. Abstr: B. Ab. 36, 57239; Int. Ab. 23, 3185; B. Hy. 32, 1293; V. B. 31, 3127.
- Counts, G. W., Smith, I. M. & Routh, J. I. 1961 Observations on biochemical changes in lethal staphylococcal infection in mice. (Abstr.) *Bact. Proc.* 61, 112.
- Counts, G. W., Smith, I. M., Routh, J. I., Hazard, E. C. & McTavish, J. F. 1961 Biochemical changes in lethal staphylococcal infections in mice. *Nature, Lond.* 191, 783-786. Abstr: Int. Ab. 24, 2776; V. B. 32, 1.
- Dineen, P. 1961 The effect of neomycin bowel preparation on the susceptibility to systemic staphylococcal infection: an experimental study. *Surgery* 49, 727-730. Abstr: Int. Ab. 25, 1095.
- Dineen, P. 1961 A period of unusual microbial susceptibility in an experimental staphylococcal infection. *J. infect. Dis.* 103, 174-180. Abstr: B. Hy. 36, 1060; Int. Ab. 25, 1073; V. B. 31, 2801.
- Freedman, L. R., Werner, A. S., Beck, D. & Paplanus, S. 1961 Experimental pyelonephritis. IX. The bacteriological course and morphological consequences of staphylococcal pyelonephritis in the rat, with consideration of the specificity of the pathological changes observed. *Yale J. Biol. Med.* 34, 40-51. Abstr: Int. Ab. 24, 5434; B. Ab. 36, 22749.
- Gordienko, A. N. et al. 1960 Change of bioelectric potentials in intact and sectioned sensory nerves after intracutaneous administration of staphylococcus and colibacillus. In: A. N. Gordienko, Editor. *Control of immunogenesis by the nervous system*. Office of Technical Services, U. S. Department of Commerce. pp. 28-33. Abstr: B. Ab. 37, 13739.
- Gordienko, A. N. et al. 1960 Bioslectric phenomena in the carotid sinus nerve when staphylococci, whooping cough, and colitacilli act on the receptors of the carotid reflexogenic zone. In: A. N. Gordienko, Editor. *Control of immunogenesis by the nervous system*. Office of Technical Services, U. S. Department of Commerce. pp. 59-62. Abstr: B. Ab. 37, 13741.
- Gorsheleva, L. S. 1960 (The influence of prolonged sleep upon the disorders in the higher nervous activity induced by staphylococcal intoxication during the period of predominance of excitation and inhibition in white rats.) In: Trudy Instituta Vysshei Nervnoi i Svoyatelnosti (Transl.) *Pathophysiological Ser. Vol. III.* Office of Technical Services, U. S. Department of Commerce. pp. 216-239. Abstr: B. Ab. 37, 9476.

Experimental Infections (Cont'd.)

- 2 Hornbrook, C. A. & San Clemente, C. L. 1961 Effect of diethylstilbestrol upon mice infected with *Staphylococcus aureus*. (Abstr.) *Bact. Proc.* 61, 113.
- Bedwell, P. & Hoag, E. 1961 (Modification of staphylococcal infections of the rat kidney by analgesics.) *Arzneimittelforsch.* 11, 909-911.
- Il'in, G. I. 1961 The effect of cortisone on the course of experimental staphylococcal infection. (Transl.) *Bull. exp. Biol. Med. U.S.S.R.* 51, 682-684. Abstr: *B. Ab.* 26, 2402.
- Ilyin, G. I. 1961 (The effect of cortisone upon the course of experimental *Staphylococcus infection*.) *Bull. Biol. Med. exp. U.R.S.S.* 51(6), 46-49.
- James, R. C. & MacLeod, C. J. 1961 Induction of staphylococcal infections in mice with small inocula introduced on sutures. *Brit. J. exp. Path.* 42, 266-277. Abstr: *B. Ab.* 26, 73111; *B. Hy.* 26, 1167; *Int. Ab.* 26, 3080.
- Levine, S. I. & Mandel, R. J. 1961 Studies on staphylococci in diffusion chambers in mice. (Abstr.) *Bact. Proc.* 61, 112.
- Mandel, R. J. 1961 Experimental skin infections in mice. (Abstr.) *Bact. Proc.* 61, 112.
- May, J. R. 1961 Experimental staphylococcal infections in man. *Lancet* 1, 340.
- Mitani, K. 1961 (Experimental studies on staphylococcal pneumonia. VII. On the effect of hydrocortisone on the developmental mechanisms.) *Sapporo med. J.* 19, 277-287.
- Miyashita, T. 1959 (Experimental investigations on the combined effect of chemotherapy and L-rays of low intensity on staphylococcal infection.) *Nagasaki med. J.* 24, 787-816. (J. sum.)
- Motomura, S. 1961 (Experimental studies on staphylococcal pneumonia. IX. Studies on staphylococcal toxemia.) *Sapporo med. J.* 20, 386-398. (E. sum.) Abstr: *B. Ab.* 50, 28194.
- Mussa, G. C. 1961 Conteggio delle setticemie stafilococciche sperimentale in rapporto all'eta. *C. R.-tt. Virol. Immun.* 54, 1-6. Abstr: *Z. B.* 184, 441.
- Obiger, O. 1961 Zum Pathogenitätsbegriff und -nachweis von Staphylokokken aus Milch. *Mh. Tierheilk.* 13, 225-239. Abstr: *Z. B.* 184, 447; *V. B.* 32, 646.
- Ozeretskovskii, N. A. 1961 (Use of oksazin in experimental cocci infections.) *Antibiotiki* 6, 409-412.
- Popovici, M. & Alessandri, Z. 1961 (Experimental studies of the acquired resistance of staphylococci to antibiotics "in vivo".) *Arch. roum. Path. exp. Microbiol.* 20, 387-391.

Experimental Infections (Cont'd.)

- Ritserfeld, W., Kierits, M. & Neuhaus, R. 1961 Tierexperimentelle Studien zum Problem der natürlichen Resistenz gegenüber bakteriellen Infektionen. III. Behandlung von Staphylokokken Infektionen eisweissvorbehandelter Ratten mit Tetracyclinen. Z. Hyg. Infektkr. 147, 488-494. Abstr: B. Hy. 37, 84; Int. Ab. 24, 5682.
- Rudnitz, S. A. 1961 (Distribution of penicillin in the rabbit organism in conditions of experimental staphylococcal intoxication.) Antibiotiki 6, 422-427.
- Schnieweis, S. S., Amsterdam, D. & Perlman, S. 1961 Enhancement of intra-peritoneal staphylococcal virulence for mice with different bile salts. Nature, Lond. 190, 829-830. Abstr: Int. Ab. 23, 3186; B. Hy. 26, 1058; Z. B. 184, 424.
- Sebastiani, C. 1959 Ricerche sperimentali sulle modificazioni indotte dalla infesione stafilococcica nella sostanza fondamentale del midollo osseo. Arch. Ro Vecchi 29, 409-412. Abstr: B. Ab. 39, 6958.
- Seto, M. 1961 (Experimental studies on staphylococcus pneumonia. IV. A study on liver damage in the above-mentioned pneumonia.) Sapporo med. J. 20, 99-111. (Z. sum.) Abstr: B. Ab. 40, 15947.
- Součková, J. & Vaneček, R. 1961 (Certain results of experimental intravenous staphylococcal infection of rabbits. Toxic and invasive differences in 2 strains of Staph. aureus.) Čsl. Epidemiol. Mikrobiol. Immunol. 10, 40-47. Abstr: Int. Ab. 24, 919.
- Takizawa, T., Oguchi, F. & Tajima, Y. 1961 (Experimental staphylococcosis in mice. II. The relationship between the number of organisms of three strains inoculated and the reaction induced in mice.) Jap. J. vet. Sci. 23, 307-313. (Z. sum.) Abstr: B. Ab. 39, 7493.
- Takubo, T. 1961 (Syntheses of diaryl sulfone. VIII. On in vivo growth inhibiting action of diaryl sulfones.) J. pharm. Soc. Japan 81, 1812-1816.
- Topchiesova, O. I. 1961 (Experimental staphylococcal endometritis.) In: Kliniko-fisiologicheskie naalyudeniya za funktsiei polovoi i mochevoi sistemy u beremennoi i neberemennoi zhenshchiny. Leningrad. pp. 369-377. Abstr: Ab. S. M. 5, 4981.
- Vancurík, J. 1961 The generalization of local staphylococcal infection in X-irradiated rabbits. Polia microbiol., Prague 6(1), 33-39. Abstr: B. Ab. 38, 554; Int. Ab. 26, 3237.